

# IOAN BITICU BSc

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Pre-settlement status until December 2030



## Profile

Results-driven Software Developer with 8+ years of experience in cloud-native, distributed systems. Specialized in architecting event-driven systems using Azure, Kubernetes, and .NET 8, delivering features that generate significant revenue. A proactive team player who thrives under pressure and consistently achieves goals across professional and academic endeavors.

Passionate about building resilient distributed systems with expertise in event-driven architectures, messaging patterns, and real-time data processing. Experienced in mentoring developers and collaborating with stakeholders to deliver production-ready solutions.

Excels in fast-paced environments where reliability is paramount. Actively seeking challenging projects with dynamic teams.

## Technical Skills

**Summary:** .NET C# (8 years); Azure (4 years); Kubernetes, NoSQL, Service Bus (4 years); React, Typescript, NodeJS (2 years); .NET Framework (4 years)

TDD, Azure cloud, Kubernetes, Serverless, C#, .NET 8, Python, Microsoft SQL Server, tSQLt, Docker, Elastic search, Splunk, Redis, Azure DevOps, Azure DevOps API, Azure DevOps Boards, GitHub Enterprise, GitHub Actions, CI/CD, Octopus Deploy, ActiveBatch, PyPI, conda, MCP servers, JIRA, Git, Scrum Agile, custom tooling, React, NodeJS, TypeScript, Tailwind, jQuery, HTML, CSS, DevExtreme, GPT, Copilot, Microsoft ARM templates, YAML pipelines, Azure Cosmos, Azure Service bus, Azure Managed Identities, Azure App Gateway, Azure automated deployments, Azure App Configuration, Geo-redundancy.

## Professional Experience

### Senior Software Developer (Consultant), A Major UK Bank, London, UK

March 2026 – Present

100,000 employees

Banking / Financial Services

- Embedded within the **DevOps** team to drive **test quality**, CI/CD tooling, and platform modernisation across the organisation's engineering estate. Increased **code coverage across 30 projects** and championed database unit testing (tSQLt) across **5 databases**, producing coverage reporting to bring SQL development in line with application-level testing standards
- Contributed to the platform migration from **Azure DevOps to GitHub Enterprise**, implementing **automated PR auditing** that publishes newly created GitHub Pull Requests into **Azure DevOps Boards** - preserving end-to-end traceability across both systems during the transition
- Developed **10 Python scripts** to audit codebases and tickets across the organisation, providing **monitoring** and surfacing process improvements throughout the full lifecycle of a ticket
- Released a **PyPI package** by migrating it from a conda environment, validating correct end-to-end behaviour across **Azure DevOps, Octopus Deploy, and ActiveBatch** following the change
- Built "**Homepage**", an internal **web application** that resolves a given user's repository access, associated repositories, and pipelines across the organisation, with the ability to star repos individually or by team/app code.
- Currently developing an **MCP server** that automatically generates **GitHub Pull Requests** in a strict, repository-aware format, enriching each PR with release-critical metadata so the relevant context is available at point of release
- Actively contribute to **weekly AI engineering sessions**, progressively advancing work from a simple **skill**, to an **MCP server**, to a full **harness**
- Technologies used:** Python, GitHub Enterprise, GitHub Actions, Azure DevOps, Azure DevOps Boards, tSQLt, MCP, Octopus Deploy, ActiveBatch, PyPI, conda, C#, .NET, SQL

### CEO & Founder, Next View Digital Marketing Agency PRO, London, UK

July 2025 – February 2026

1 employee

Digital Marketing

- Architected a **fault-tolerant, event-driven** distributed system across a 2-node **Docker Swarm** with **Traefik** load balancing, **MySQL** master-slave replication, **RabbitMQ** queuing, and **Redis** locking — with automated **failover** to a secondary node
- Engineered a **real-time** data pipeline spanning **5 WebSocket servers**, ingesting **10M+ events/month** with **sub-500ms** delivery to users. Implemented **Redis** and **RabbitMQ** queues at each stage to ensure **message reliability** for activity feeds, player tracking, and **cheater detection**
- Launched **5 production websites** as sole developer — two **real-time** PlanetSide 2 applications (**NextJS, React, TypeScript**), two barbershop sites, and one restaurant site, organized within a **monorepo** architecture
- Built a **Discord bot** delivering **real-time** player online notifications and **friends list tracking** via DMs, integrating with **WebSocket** and **database** layers. Iterated features based on **user feedback**
- Implemented full **observability** using **Grafana, Loki, and Promtail**, with automated **phone call alerts** within 5 minutes of anomalies. Deployed on **Flatcar OS** optimized for containers, and **upskilled** extensively in **software architecture** and **distributed systems** design
- Technologies used:** React, NextJS, Docker Swarm, Kubernetes, Docker, MySQL, Grafana, Typescript, Websockets

## Software Developer, Derivco Sports, London, UK

January 2021 – May 2025

500+ employees

Sports Betting

- **Returned to Derivco Sports** to immediately pursue high-impact opportunities in **cloud architecture** (Microsoft Azure), specializing in **Kubernetes** and utilizing the latest **.NET 8** technologies in an **event-driven architecture**
- **Delivered core functionality** for 20+ new betting markets, resulting in over **£250,000 in new annual revenue** and enabling automated payments. **Architected** this solution on **.NET LTS** and **Kubernetes**, ensuring high availability via **Geo-redundancy** and rigorous unit testing across the Azure environment
- **Improved UI design** for match settings, focusing on UX for our traders, which **minimized configuration mistakes** and significantly increased the reliability of committing mission-critical changes during live events
- **Championed and implemented** the introduction of **Azure Managed Identities** across Kubernetes (AKS) and Azure Functions. This architectural shift drastically improved system security, **simplified deployment pipelines**, and enhanced long-term application reliability
- **Drove system modernization efforts** by migrating core integrations and base packages to **Azure Functions v4** and **.NET 8 LTS**. This required comprehensive updates to configuration systems and **YAML CI/CD pipelines** to ensure platform compatibility and stability
- **Mentored a junior C# developer**, providing guidance on best practices, reviewing complex architecture, and implementing **worthy optimizations** to enhance the performance and longevity of critical systems
- **Engineered the Automated Package Updater (APU)**, a custom **C# worker service orchestrator** that utilized the **Azure DevOps API**. This tool processed a graph representation of dependencies, automating the upgrade process for long-chain dependencies (**4-5 nested dependencies**) across an average of **10 leaf nodes**, ensuring upgrades were validated via unit tests before generating automated Pull Requests
- **Completely rearchitected** the core event replay system from the ground up, enforcing **SOLID principles** and Test-Driven Development (TDD). The new design included a Replay Orchestrator leveraging **Kubernetes network communication** to add critical features such as stopping and **fast-forwarding message delivery**
- **Enhanced system resilience** by standardizing core engineering practices. This included refining data parsing retry mechanisms, enhancing logging structures for ease of **Splunk/Elastic search filtering**, enforcing **data immutability**, and implementing systemic safeguards for recoverability and future-proofing data via extensive **unit testing**
- **Technologies used:** Azure, Kubernetes, Docker, MSSQL, .NET, C#, Azure DevOps API, Splunk, Elastic Search

## CEO & Founder, Next View Digital Marketing Agency, London, UK

July – December 2020

1 employee

Digital Marketing

- Reached out to companies for freelance work using loom, providing **statements of work**, and other plans
- **Hired subcontractors** to write simple parts of the website such as templates
- Delivered an e-commerce project using **vuestorefront** and magento2
- Envisioned multiple solutions for my clients after **door-to-door sales**
- **Technologies used:** React, Vue, AWS, Scaleway, Linux

## Software Developer, Derivco Sports, London, UK

July 2018 – June 2020

500+ employees

Sports Betting

- **Delivered core functionality** for 30+ new betting markets focused on Football player cards, resulting in over **£400,000 in new annual revenue** and enabling automated payments. Worked closely with the quants team to translate complex betting logic into production-ready features within an event-driven architecture using real-time distributed systems
- **Collaborated directly with internal traders (end-users) to provide hands-on support for trading applications**. Gained deep insight into operational workflows, enabling better-informed technical decisions and faster incident resolution
- **Leveraged RabbitMQ for event-driven messaging and Octopus Deploy for deployment automation**, gaining production experience with these technologies in a high-stakes betting environment
- **Resolved critical cross-application message flow failures by tracing and fixing bugs across multiple independent services**. Debugged complex scenarios where messages originated in Application 1, propagated through Application 2, and terminated in Application 3, requiring coordinated fixes across isolated codebases while maintaining system integrity
- **Continuously refactored legacy codebases following clean code principles, improving maintainability and reducing technical debt across multiple systems**. Maintained high code quality standards and contributed to release processes, ensuring production deployments met reliability requirements
- **Engineered a comprehensive local development environment that ran the entire monolith, warm cache, and database simultaneously on a single machine**. This setup dramatically accelerated debugging cycles and enabled rapid root-cause analysis of complex distributed system issues without dependency on shared environments
- **Orchestrated a datacenter migration involving 30+ production servers, ensuring zero downtime for mission-critical betting systems**. Coordinated with infrastructure teams to maintain service availability and data consistency throughout the transition
- **Maintained and evolved existing codebases across multiple iterations, implementing new business requirements while preserving system stability**. Worked closely with software architects to ensure architectural consistency and technical excellence across the platform
- **Technologies used:** Octopus, Windows, MSSQL, .NET, C#, Elastic Search, .NET Framework

## Software Developer, The Digital Centre, Hull, UK

August 2016 – July 2017

20 employees

Simulation & Training Software

- **Developed commercial immersive training simulator software for Humberside Fire and Rescue Services, targeting Major Accident Hazards scenarios.** Built core libraries in C# WPF that formed the foundation for realistic emergency response training, directly contributing to public safety preparedness
- **Delivered live product demonstrations to high-profile industrial clients including BP, Tata Steel, and Siemens,** showcasing the simulator's capabilities for hazardous materials training and emergency response scenarios in industrial environments
- **Architected and implemented core C# WPF libraries that powered the immersive training simulator,** enabling realistic fire and rescue training scenarios while maintaining performance standards suitable for commercial deployment
- **Partnered with the events team to plan and execute demonstration logistics for over 20 public events,** ensuring technical setup, live demonstrations, and audience engagement ran smoothly across diverse venues
- **Technologies used: Windows, Office 365, .NET, C#, WPF, .NET Framework**

## Summer Placement, University of Hull

June – September 2015

20 employees

Research & Development (R&D)

- Worked within the research and development team on building a **Head-tracked stereo display board**
- Connected the project to **the Kinect 360 and Kinect 1** using different drivers alternatively through a python script when the hardware is used for other project in the induction weeks. Tested and tuned a range of 3D assets to identify the appropriate ones for a PEGI 3 game
- Created product demonstrations to demonstrate project insights and developments
- Represented the department of Computer Science at the **BBC Make it Digital 2015** event in Hull
- **Technologies used: Windows, Office 365, .NET, C#, .NET Framework**

## Betting Assistant, Totepool

April 2015 – July 2018

500 employees

Sports Betting

- **Adapting quickly to changes such as new types of bets, regulations and changes of staff or working place**
- **Working efficiently and effectively** to make sure all clients are satisfied with the image of the company while offering them a fun and memorable experience
- **Remaining calm when working under pressure,** especially during the busy national events (Royal Ascot)
- **Working flexibly as part of a team to cover up for staff shortages**

## Education

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**BSc Computer Science:** University of Hull **2014 – 2018** Score: 2.1

**Computer Science Intensive High-School:** Colegiul National Fratii Buzesti, Craiova, Romania **2012 – 2014** Score: 87%

## Professional Development Course

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**Exam AZ-204:** Developing Solutions for Microsoft Azure **pending**

**Exam AZ-900:** Microsoft Azure Fundamentals Certificate **2019**

**Full EU Driving license**

## Hobbies & Personal Interests

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- Cycling
- Reading non-fiction
- Sports betting
- Gaming

References available upon request