

Jozef Bonnar

Full-Stack Software Engineer | Product Engineering | Cloud Infrastructure

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Professional Profile

First Class Computer Science graduate and full-stack software engineer who designs, builds, and ships product end to end: interfaces, APIs, data, search, and the cloud infrastructure underneath. Comfortable moving between Next.js/React, Angular, and C#/.NET stacks, and between AWS, Azure, and GCP when the problem demands it. Equally at home owning production systems as writing application code, with over six years running commercial hosting, networking, and deployment pipelines alongside software delivery. Experience spans regulated enterprise platforms, internal operational tooling, and independent client work, with a bias toward clear product outcomes, reliable operations, and software that holds up under real use.

Technical Skills

Languages: C#, C++, TypeScript, JavaScript, Python, SQL, PHP, Bash

Web: Next.js, React, Angular, Angular Material, RxJS, Tailwind CSS, Google Maps, PWAs, Service Workers

Backend and data: .NET, REST, OpenAPI, Azure Functions, API Management, Azure AI Search, Cosmos DB, Convex, MongoDB, Blob Storage, SignalR

Cloud and DevOps: AWS, Azure, GCP, Docker, Kubernetes, Bicep, CI/CD, Key Vault, Application Insights, Entra ID, WAF, private networking

Professional Experience

Software Engineer

Anglian Water Services Ltd, Pollutions

Feb 2026 – Present

Full-stack, cloud and environmental operations

- Engineer Anglian Water’s next-generation Pollution Control Centre, taking incidents from SAP work-order ingestion through live triage, risk and impact assessment, mitigation, and Environment Agency publication to give control-room teams one operational source of truth.
- Build the Angular event workspace with action feeds, timelines, GIS, and bucket-driven queues for risk, field evidence, affected-area detail, self-reporting, regulatory review, and T1 to T4 tankering coordination.
- Ship Google Maps tooling for historic incidents, samples, evidence, discharging assets, and live water and sewer network layers, with what3words capture for precise pollution escape and watercourse entry points.
- Support Environment Agency compliance through staged storyboard authoring and publication, category scoring, environmental escalation gates, Entra ID role controls, and complete audit histories.
- Deliver Angular and .NET Azure Function features through API Management and Application Gateway with WAF, using an App Service Environment, private VNet endpoints, Key Vault, Cosmos DB, Blob Storage, Application Insights, and enterprise integration services.
- Delivered Azure AI Search with full-text retrieval, typeahead, and autocomplete; integrated AI-generated briefings and structured watercourse assessments so staff can regain context quickly and close incidents only when required evidence is complete.

Software Engineer

Morrisons PLC

Sep 2025 – Feb 2026

Internal retail product search platform

- Built a mobile-first Next.js 16 and React 19 BFF PWA integrating product, stock, range, pricing, orders, planograms, and store services while keeping internal credentials server-side.
- Built a single product page that pulls product, stock, pricing, orders, shelf locations, and adjustments from seven internal APIs in parallel, with short timeouts, retries, and caching so store colleagues get a complete answer in one place.
- Implemented exact and fuzzy product search with concurrent range enrichment, debounced request cancellation, and native plus ZXing WASM barcode scanning with UPC, EAN, GTIN, GS1, and reduced-label parsing.
- Optimised reliability with TanStack Query prefetching, route and CDN image caching, and a custom service worker providing network-first APIs, cached item pages, and an offline fallback.
- Containerised workloads with Docker and used Kubernetes deployment patterns to support repeatable releases, horizontal scaling, and integration across internal environments.

Leadership and Infrastructure

Chief Operating Officer <i>Royalty Hosting</i>	Jan 2020 – Present <i>Cloud hosting and managed infrastructure</i>
– Direct operations, support, server management, and billing for 150+ active clients, helping the business achieve a 4.3/5 Trustpilot rating. – Maintain 99.9% uptime across 60+ servers spanning web hosting, game servers, and VPS products; proactive monitoring and response supported a 15% increase in customer retention. – Lead a three-person support and infrastructure team, improving average ticket resolution time by 30%; mitigate approximately 20 DDoS attempts per month through network monitoring and firewall controls. – Reconcile invoicing, payments, and expenses with an error rate below 1%, maintaining accurate financial operations as the customer base has grown. – Built automated deployment, payment-integration, and support workflows that connect customer operations with production infrastructure.	

Selected Projects

Autonomous Robot Waiter, Machine Vision Lead Python, OpenCV	<i>Oct 2024 – May 2025</i>
– Led design, development, and testing of a real-time MediaPipe and NumPy vision pipeline for pose estimation, segmentation, and ROS-based human-robot interaction. – Integrated iPhone LiDAR/TrueDepth data to achieve distance estimates within ± 0.12 m up to 2 m and built temporal gesture confirmation with a 98.3% true positive rate.	
Evoke Hosting Control Panel Next.js, NextAuth, Stripe, Prisma, PostgreSQL	<i>Independent project</i>
– Built a full-stack customer dashboard with secure Discord/email authentication, subscription billing, and relational persistence. – Integrated automated provisioning and live game-server and VPS controls so customers could manage infrastructure without support intervention.	
VINCI Facilities Sustainability Consultancy Data analysis, stakeholder delivery	<i>Oct 2024 – Jan 2025</i>
– Analysed waste and recycling needs for 3,000+ residents in a seven-person team; produced a costed business report and earned 15/15 for the client presentation and engagement. – Translated research into practical recommendations for VINCI Facilities and University Estates, with several ideas taken forward for future implementation.	
Independent Software and Cloud Contractor Next.js, AWS, GCP, Docker	<i>Selected client work</i>
– Build production-ready websites and full-stack dashboards for startups and independent clients, covering responsive interfaces, authentication, payments, APIs, deployment, and ongoing support. – Deploy and operate containerised services across AWS, GCP, and Hetzner using Docker, CI/CD, Linux, monitoring, and network controls.	

Education

BSc (Hons) Computer Science, First Class Honours <i>University of Lincoln</i>	Sep 2023 – Jul 2026 <i>Lincoln, UK</i>
– Level averages: 83.0% (Level 4), 78.3% (Level 5), and 76.6% (Level 6); Level 6 median: 82.0%. – Selected study: algorithms and data structures, software engineering, AI and machine learning, operating systems, networking, mobile UX, and autonomous robotics.	
A Levels: Computer Science, Mathematics, Physics <i>Huntington School Sixth Form</i>	Sep 2021 – Jun 2023 <i>York, UK</i>

Certifications and Additional Experience

Microsoft Certified: Azure AI Fundamentals (AI-900) (Oct 2025) Microsoft Certified: Azure Fundamentals (AZ-900) (Oct 2025) Lincoln Award (Jan 2025)	
Morrisons PLC: Worker / PFS Supervisor, Sep 2023 – Feb 2026 J Sainsbury PLC: Trading Assistant, Oct 2021 – Sep 2023	