

BRANDON EASTWELL

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Software Engineer with experience building backend services and full-stack applications using TypeScript, Python, Node.js and PostgreSQL. I enjoy taking ideas from prototype to production, simplifying messy problems and building software that people can use to simplify day to day tasks. Through both professional work and personal projects I've worked across the frontend, backend, databases and infrastructure, with a particular interest in backend systems and product engineering.

EXPERIENCE

Web Developer (Contract) | Eastys Accessories

March, 2025 - January 2026

- Built internal dashboards using React and TypeScript to manage inventory and day to day operations.
- Developed Node.js backend services with PostgreSQL to automate inventory updates and order processing.
- Integrated the backend with the eBay API to automatically synchronise stock updates between the internal system and the online store, reducing manual updates and keeping inventory consistent.
- Investigated technical issues by tracing data flows across frontend applications, backend APIs and SQL databases, identifying root causes and implementing fixes.
- Wrote unit and integration tests using test-driven development practices to improve confidence in refactoring and system reliability.
- Worked closely with users to gather requirements, deliver new features and provide technical support when issues arose.

PROJECTS

Outdoor Reflections – Offline Hiking Journal

March, 2026 - Present

github.com/BrandonEastwell/outdoor-reflections

- Built an offline-first journaling platform with NestJS, PostgreSQL, Next.js, and IndexedDB.
- Designed a synchronisation system using client-generated UUIDs, idempotent REST APIs, conflict safe updates and sync-status tracking to reconcile offline edits without duplicating or losing user data.
- Developed a responsive frontend drawing and editing system that keeps handwritten annotations aligned with editable journal content across different device layouts and sizes in React.
- Investigated and tested edge cases including interrupted requests, retry logic and network failures to improve system reliability.
- Used AI tools including Claude Code and ChatGPT to investigate issues, explore implementation approaches, accelerate learning and improve development efficiency.

Photography Sharing & Search Platform

March, 2025 - August 2025

github.com/BrandonEastwell/photography-app

- Built a full-stack web and mobile application using React Native, TypeScript, Expo, Django and PostgreSQL.
- Developed Django REST APIs to support authenticated image uploads, metadata extraction and advanced filtering systems based on camera settings, lenses and geolocation data.
- Implemented hybrid JWT and session-based authentication, applying secure development practices to support session revocation and multi-device logout control.
- Processed and normalised inconsistent EXIF metadata from multiple camera manufacturers to improve accuracy of search filtering and data comparisons.
- Built weighted search functionality using camera metadata, EXIF information and geolocation.

TECHNICAL SKILLS

- **Languages:** TypeScript, JavaScript, Python, SQL
- **Frontend:** React, Next.js, React Native, Expo
- **Backend & Databases:** Node.js, NestJS, Django, REST APIs, PostgreSQL, Prisma
- **Cloud & Tools:** Git, Docker, AWS (S3, RDS), Jira, Jest, Playwright, Agile, Claude Code
- **Engineering:** Test-Driven Development (TDD), AI-assisted development, REST API design, Debugging, Automated testing

EDUCATION

University of Essex - BSc Computer Science (First Class Honours)

September, 2021 - July, 2024

- Graduated with First-Class Honours in Computer Science
- Awarded Dean's list for excellence in years 2021 - 2024
- Modules: Data Structures and Algorithms, Databases, Software Engineering, Web Development