BRANDON EASTWELL

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EDUCATION

Bachelor of Science in Computer Science   September, 2021 - July, 2024

University of Essex

- Graduated with a First-Class Honours level degree
- Dean's list for excellence in years 2021 - 2023
- Completed Modules: Data Structures and Algorithms, Languages and Compilers, Database Systems, Software Engineering, Web Development, Information Retrieval, Large Scale Software Systems and Extreme Programming

EXPERIENCE

Full Stack Developer (Freelance) | EASTYS ACCESSORIES   March, 2025 - July 2025

- Built a full-stack inventory management system for an eBay-based store using the eBay REST API, automating stock updates and order syncing, reducing manual input by 100%.
- Implemented an interactive dashboard using React and TypeScript simplifying decision making for stakeholders.
- Designed and implemented a custom bulk uploader tool that sped up listings of hundreds of products to eBay in minutes, previously a multi-hour task.
- Deployed scalable backend features using Python and Fast API, integrating RESTful API services to streamline inventory workflows and reduce downtime in a client-focused environment.
- Set up a CI/CD pipeline with GitHub Actions, cutting deployment time by 70% and catching bugs before production.

PROJECTS

Full Stack Photography Sharing Mobile App   github.com/BrandonEastwell/photography-app

- Developed a professional photography sharing and location based search app in React Native (Expo) with a Django REST API backend and PostgreSQL database and Integrated AWS S3 for scalable photo storage.
- Implemented secure hybrid auth using JWT and session tokens for smooth and protected account management.
- Enabled image uploads with EXIF metadata extraction (e.g. camera, location), storing enriched data in the DB for precise filtering and improving search accuracy by 100%.
- Built geo-based search functionality allowing users to filter photos by proximity, using device location and geodistance ordering to surface locally relevant photography.

Tech Stack: React Native, Expo, TypeScript, Django, Python, PostgreSQL

Full Stack Movie Discovery Platform   github.com/BrandonEastwell/movie-discovery-app

- Leveraged Next.js server-side rendering by strategically combining server-side fetching and client-side prefetching to optimize both initial load and SEO performance.
- Fine-tuned queries and indexed key user fields, leveraging PostgreSQL and caching mechanisms reducing recommendation fetch times by 50%.
- Built stateless JWT-based authentication with Bcrypt, enabling secure, seamless login sessions.
- Developed a hybrid recommendation algorithm, combining collaborative and content-based filtering to significantly improve relevance and personalization.

Tech Stack: Next.js, React.js, TailwindCSS, TypeScript, Prisma, PostgreSQL, Jest, React Testing Library

Resident Advisor Set Finder   github.com/BrandonEastwell/ra-set-finder

- Built a Chrome extension that extracts DJ lineups from Resident Advisor event pages and dynamically surfaces related DJ sets from YouTube using the YouTube Data REST API.
- Built a lightweight Node.js + Express.js backend proxy to securely handle YouTube Data API requests.
- Integrated client caching to reduce API calls and improve performance by over 40% minimizing API quota usage.
- Implemented a React + TypeScript interface styled with Tailwind CSS for the extension's popup interface.
- Leveraged Chrome's Content Scripts and Manifest V3 to perform secure, CSP-compliant DOM scraping.

TECHNICAL SKILLS

- **Languages**: Java, JavaScript, TypeScript, Python, HTML, CSS
- **Frameworks & Libraries:** React.js, React Native, Next.js, Express.js, Django, Tailwind CSS
- **Backend & Database**: Node.js, SQL, MySQL, PostgreSQL, Prisma ORM, RESTful APIs, JWT
- **Tools & Development:** Git, Test Driven Development (TDD), React Testing Library, Jest, Vitest, Figma, CI/CD pipelines