Cameron Badman

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Professional Experience

DevOps Engineer, CYBERLOOP — Jan 2023–Feb 2024

- Boosted development efficiency by creating CI/CD pipelines that reduced manual testing time by 75%
- Rewrote automated testing using Playwright, improving sync times of hanging/loading features
- Reduced migration costs by 20% by creating a bash script to compress unstructured data on Firebase
- Developed a GenAI-powered tool that assigns labels for difficulty and time automatically

Teacher Assistant - Cert IV in Cybersecurity, NDIS (TAFE) — Nov 2021–May 2022

- Instructed adult learners in foundational Python programming and networking concepts
- Provided hands-on training in network infrastructure, covering switches, routers, and server technologies

Python Tutor, Junior Engineers — Jun 2021–Feb 2023

- Rewrote programming classes for children and teens, making complex coding concepts easier to understand
- Trained new instructors, helping them create engaging classroom experiences that keep students motivated
- Led the advanced classes for 8-16 year olds, teaching Python OOP, Scratch, Arduino, Minitendo

Project Assistant/Crowdfunding Analyst, Kuranda Industries — Jul 2022–Nov 2022

- Supported multi-million dollar real estate investment deals, helping the team make smart, data-driven decisions
- Created predictive models that helped identify promising housing markets faster and more accurately
- Managed minor renovation projects, handling budgeting, recruitment, and planning

Education

University of Queensland – Bachelor's Degree, Brisbane, Australia — 2021–Present

Projects and Open-Source Contributions

All projects available on GitHub

Collaborative Drawing WebApp [GitHub]

- **Frontend:** Developed using Vite, ThreeJS, and Axios with a custom layer-based HTML canvas drawing system for optimal performance
- **Backend:** Designed microservice architecture using Go and .NET, implementing Command Query Responsibility Segregation (CQRS)
- **Infrastructure:** Containerised with Docker, orchestrated via Kubernetes, and deployed on AWS Fargate using Terraform
- Integrated AWS Cognito for secure authentication with scalable data storage using Cassandra, Redis, and Kafka

Nix Configuration [GitHub]

- Developed a comprehensive Nix-based desktop, this also includes hyprland, waybar, and alacritty configuarion which I currently use as my main driver
- Learnt enough about the Nixos configuration language to use it in a production for easy physical infrastructure

Reddit Clone [GitHub]

- Created a Reddit client that has in my opinion a better scroll style-Ui built to be more like tiktok
- Utilizes Vue.js and Quasar component library, with the axios api library
- Implements the base authentication and stream setups from Reddit API integration

SongTrax Web and Mobile Platform [WebApp] [Native App]

- Full-stack 8-bit music sharing platform with web and mobile applications
- Web app built using React, ASP.NET, and PostgreSQL, with the backend being deployed on a Google cloud engine setup
- Mobile app developed using React Native

Infrastructure-as-Code Project [GitHub]

- Implemented cloud deployment using AWS Fargate, demonstrating modern DevOps practices
- Gained hands-on experience with infrastructure-as-code principles and cloud infrastructure management

Open-Source Contributions

goproxy [GitHub]

- Developed and implemented HTTP Archive (HAR) middleware with Prometheus/Grafana integration, utilizing goroutines for non-blocking metrics collection
- Working on modernizing the project's testing infrastructure
- Transitioning test suite from legacy approaches to more modern testing practices using testify

Technologies and Skills

Languages: Python, JavaScript, TypeScript, Go, C#, Bash
Web Technologies: React, Vue.js, ASP.NET, HTML, CSS
Cloud & DevOps: AWS, Docker, Kubernetes, Terraform, Nix, AWS, GCP
Databases: PostgreSQL, SQLite, Redis, Cassandra
Tools: Git, GitHub, Playwright, CI/CD, Kafka, Atlassian