

# Cameron Badman

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## Professional Experience

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### 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 smarter and data-driven pricing calculations
- Created predictive models that helped identify promising housing markets faster and more accurately
- Managed minor renovation projects, handling budgeting, recruitment, and planning

## Education

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University of Queensland – Bachelors of Computer Science/Commerce

2021–Present

## Projects

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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:** uses a microservice architecture written in Go and .NET, implementing Command Query Responsibility Segregation (CQRS) based connection system with Kafka to accommodate high concurrent users
- **Infrastructure:** Containerised with Docker, orchestrated using Kubernetes, and deployed on AWS Fargate using Terraform
- Integrated AWS Cognito for secure authentication with scalable data storage using Cassandra, Redis

### Nix Configuration [\[GitHub\]](#)

- Developed a comprehensive Nix-based desktop, this also includes hyprland, waybar, alacritty, neovim, installed using home-manager which I currently use as my desktop driver
- acquired the necessary skills of 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

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### goproxy [\[GitHub\]](#)

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

## Technologies and Skills

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**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