

Tristan Davis

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WORK EXPERIENCE

Fortinet

Burnaby, BC

Full Stack Developer

May 2024 – Present

- Led the development of a backend Python REST API for FortiAI, enabling requests to FortinetAI, tools, and other backend APIs, ensuring robust integration with FortiOS and FortiSASE
- Built a custom chatbot for the GUI, driving Assistant-user interaction, with logic to dynamically generate components from AI responses; showcased in a successful live demo at the 2025 Fortinet Accelerate conference
- Optimized UI component library performance by 30% through strategic refactoring and implementation of Angular best practices
- Designed CLI tool to automate FortiGate build management, reducing deployment setup time by 25%

Fortinet

Burnaby, BC

Web Developer Intern

May 2023 – Jan 2024

- Built REST API with Node.js handling 500+ daily requests for network packet capture management
- Increased test coverage from 60% to 90% through implementation of Jasmine unit tests and Jest integration tests
- Resolved critical security vulnerabilities in C-based endpoints through buffer overflow mitigation techniques
- Collaborated with cross-functional teams to implement 15+ new UI features using Angular and TypeScript

Scriptofan

Vancouver, BC

Backend Developer Intern

May 2022 – Aug 2023

- Developed Spring Boot e-commerce API handling 200+ RPM with PostgreSQL database optimization
- Migrated CI/CD pipeline from Jenkins to GitLab CI, reducing deployment time by 50%
- Implemented automated testing suite with Mockito achieving 80%+ code coverage
- Created comprehensive API documentation covering 50+ endpoints for developer onboarding

EDUCATION

British Columbia Institute of Technology

Vancouver, BC

Diploma in Computer Information Technology

Jan 2022 – Apr 2024

- GPA: 90% (Top 5% of cohort)
- Relevant Coursework: Cloud Computing, Database Systems, Web Development, Algorithms

TECHNICAL PROJECTS

AI Workflow Orchestration System — TypeScript, Python, Docker, MongoDB — GitHub

- Developed a Python, FastAPI application that managed users, session state, allowing easy access to Large Language Models
- Designed and implemented a full-stack AI pipeline orchestration system using ReactFlow to create an interactive, node-based UI for managing complex chat query workflows
- Integrated multiple LLM providers (OpenAI, Anthropic, DeepSeek) with custom context management system
- Containerized application using Docker achieving 99.9% uptime on AWS EC2 deployment

Real-time Data Processing Pipeline — AWS, Kafka, Python, Jenkins

- Built event-driven data pipeline processing 10k+ messages/sec using Kafka and Kubernetes
- Built a Jenkins pipeline running on Google Cloud that tests, packages, and deploys the application.
- Implemented comprehensive monitoring and logging mechanisms to ensure the reliability, availability, and performance of the data pipeline, enabling proactive identification and resolution of issues

TECHNICAL SKILLS

Languages: TypeScript/JavaScript, Python, Java, C, SQL, Go

Frameworks: Angular, Node.js, Spring Boot, Flask, Jest, Jasmine

Tools: Git, Docker, Kubernetes, AWS, Kafka, Jenkins, Postman

Concepts: REST APIs, CI/CD, Unit Testing, Cloud Computing, Agile

Languages: Fluent in English and French