ETHAN PORTMAN

Victoria, BC | 778-363-8429 | ethanportman@gmail.com | Github: Eportman

PROFESSIONAL SUMMARY

I'm a developer focused on building scalable APIs, backend services, and cloud-based systems. I enjoy turning complex challenges into simple, efficient solutions and thrive in environments where thoughtful collaboration and clean architecture matter.

WORK EXPERIENCE

APPLICATION DEVELOPER, BC REGISTRIES AND ONLINE SERVICES   MAY, 2024 - PRESENT

- Led migration of a legacy OpenShift deployment to Google Cloud Run, modernizing infrastructure and improving scalability, reliability, and developer experience.
- Implemented Cypress smoke tests and GitHub Actions pipelines to improve test coverage and automate quality assurance across pull requests.
- Enhanced the Business Annual Report project by enabling clients to file up to 10 Annual Reports in a single session through a redesigned Nuxt interface and Flask API.
- Resolved production issues with Jupyter Notebooks, reducing client resolution time from hours to minutes.
- Contributed to daily agile ceremonies, supporting consistent sprint delivery and cross-team alignment.

FORESTRY CREW BOSS/ TREE PLANTER, ARTISAN REFORESTATION   2017-2023

- Led a 10-person planting crew, managing payroll, safety, and daily operations across remote sites.

INDUSTRIAL MEDIC, OCTANE SAFETY SERVICES   2020-2021

- Maintained Emergency Response Plans and provided first aid in high-pressure field environments.
- Streamlined inventory tracking for 300+ items and built custom Excel sheets for on-site personnel records.

SKILLS

- **Programming Languages:** Python, TypeScript, C#, SQL
- **UI Development:** Nuxt, Vue3, Next, React, Tailwind
- **API Development:** Flask, Django, Keycloak
- **Databases:** Postgres, Oracle, SQLAlchemy, Alembic, Solr
- **Testing and Automation:** Cypress
- **Cloud Platforms:** GCP, OpenShift, AWS
- **Version Control and CI/CD:** Git, GitHub, GitHub Actions, CI/CD Pipelines
- **Artificial Intelligence:** TensorFlow, Scikit-learn, Computer Vision

EDUCATION

INFORMATION & COMPUTER SYSTEMS TECHNOLOGY DIPLOMA, CAMOSUN COLLEGE

2022 - 2025

- Received the Victoria Innovation, Advanced Technology & Entrepreneurship Council Award.
- Achieved a GPA of 8.6/9.0, reflecting consistent academic excellence.

BACHELORS OF KINESIOLOGY, UNIVERSITY OF BRITISH COLUMBIA

2014 - 2018

- Specialized in Exercise Physiology with a minor in Biochemistry.
- Received the UBC Extracurricular Leadership Award for leading the Varsity Rugby Team's training program.

PROJECTS

FLAPPY BIRD AI AGENT

PYTHON, TENSORFLOW, PYGAME, REINFORCEMENT LEARNING

- Built a Q-learning agent to play Flappy Bird using TensorFlow and Pygame, extracting features like velocity and pipe distance to train over 10,000 episodes and outperform baseline strategies.

SECURE CHAT APPLICATION

PYTHON/FLASK, SOCKET.IO, POSTGRESQL, TYPESCRIPT/VUE 3, JWT

- Developed a real-time chat app with end-to-end encrypted messaging and JWT-based user authentication.