Prottoy Zaman

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TECHNICAL SKILLS

Languages: Java, PHP, Python, JavaScript/TypeScript, SQL, C/C++, HTML/CSS
Backend and Data: REST APIs, Webhooks, PostgreSQL, Prefect
Developer Tools: Visual Studio Code, Git, IntelliJ, Postman, AWS
Frameworks & Libraries: ReactJS

WORK EXPERIENCE

Junior Full-Stack Developer Co-op   Sep. 2025 - Apr. 2026
Operto Guest Technologies, Vancouver, BC
- Debugged production backend issues by tracing logs to application code and writing raw PostgreSQL queries against QA and production databases to identify root causes
- Contributed to REST API enhancements, webhook handler migrations, and PostgreSQL database refactors within a production codebase
- Migrated legacy webhook endpoints to a unified architecture and built Prefect flows to orchestrate endpoint transitions and ensure reliable event processing
- Participated in code reviews, incorporating feedback to refine implementations and successfully merge pull requests into production
- Modified React and TypeScript frontend logic to implement role-based access control (admin vs non-admin), improving internal onboarding workflows

PROJECTS

Land Grab | *Python, Sockets, PyGame*
Data Communications and Networking (CMPT371), **SFU**   Mar. - Apr. 2025
- Developed a fast-paced multiplayer game inspired by *Stake Your Claim* from Mario Party, using TCP sockets to handle real-time communication between a server and multiple concurrent clients.
- Implemented server-side concurrency, resource locking, and region-claim logic to ensure fairness and synchronization between players
- Executed robust and functional tests for client-server message handling, validating correctness of move commands, state synchronization, latency handling, and thread-safe data sharing with locks

FitCheck | *React, OpenWeatherMap API, Gemini API*
Introduction to Software Engineering (CMPT276), **SFU**   Oct. - Dec. 2024
- Developed a web application using ReactJS to help users manage their fashion choices and receive AI-driven outfit recommendations
- Debugged application errors by working in an Agile team environment, leading to an improvement in system stability
- Implemented real-time data synchronization between OpenWeatherMap API, user wardrobe, and Google Gemini chatbot, enhancing the accuracy of AI outfit recommendations

Course Planner | *Java, Spring Boot, REST API, Postman*
Object Oriented Design In Java (CMPT213), **SFU**   Nov. 2024
- Developed a RESTful API using Spring Boot to expose course enrolment data via structured endpoints, enabling easy retrieval and interaction with a web-based UI
- Debugged and validated RESTful API functionality using Postman, ensuring accurate data retrieval and proper request handling between client requests and server responses
- Applied Object-Oriented Design (OOD) principles such as encapsulation to reduce coupling between models, controllers, and services, improving maintainability and scalability

EDUCATION

Simon Fraser University, Burnaby, BC   Sept. 2023 - Present
- Bachelor of Science in Computing Science