Raymond Shen

604-367-1116 | rayleishen@gmail.com | linkedin.com/in/rayleishen | github.com/rayleishen

TECHNICAL SKILLS

Languages: Python, C/C++, Java, HTML/CSS, JavaScript, Assembly, Verilog
Frameworks: Firebase/Firestore, Vercel, MongoDB, React, FastAPI, REST API
Libraries/APIs: OpenCV, matplotlib, pandas, beautifulsoup4, Mappedin, OpenAI, Gmail, Meta, Reddit

EDUCATION

University of British Columbia   **Sep 2022 - expected Apr 2026**
Bachelor of Applied Science in Electrical Engineering with Co-op

EXPERIENCE

UBC ThunderBikes, UBC Engineering Student Team   **Sep 2023 - present**
Control Systems Sub-Team, Webmaster
➢ Designed PCB schematics using Altium and soldered both SMD and SMT components
➢ Migrated and maintains team website using HTML/CSS hosted on Firebase from Google Sites
➢ Discussed various issues and progress of all sub-teams and objectives in weekly meetings
➢ Balanced tight deadlines to compete in New Jersey Motorsports Park 2024

UBC White, Esports Association   **Sep 2023 - present**
Team Manager
➢ Managed a team of 7 talented players to organize NACE collegiate games and practices
➢ Established event-wide schedules to coordinate availability across the organization
➢ Maintained strong communication channels between competitors and operation officials

SentiSpot, Sentiment Analysis Startup   **Apr 2023 - present**
Cofounder: Lead Software Developer
➢ Developed to analyze how users respond to social media posts through using sentiment analysis
➢ Incorporating various APIs including Reddit, YouTube, Gmail, OpenAI and Firebase RealtimeDB
➢ Appointed specialized tasks for each of the team members to optimize workflow efficiency
➢ Currently expanding operations through grants, intern intake, and developing a dedicated LLM

Minpraxis Solutions Ltd., Mineral Industries Company   **Oct 2023 - Nov 2023**
Data Analyst: Contract Part-Time Hybrid Position
➢ Learned to use custom software to process force signals with high accuracy from documentation
➢ Gained invaluable experience working in a smaller startup team and completing weekly deliverables
➢ Data was shown to be relevant to the mining industry and completed field test in Kamloops

PROJECTS

StudyScout, nwHacks 2024   **Jan 2024**
Python, React, MongoDB, Vercel, Mappedin
➢ Western Canada's biggest hackathon (176 projects), awards: 1st CSE, 1st MongoDB, 3rd Mappedin
➢ Focused on the hardware and database components of the project, also connected Mappedin SDK
➢ Wrote video processing program and connected to MongoDB in Python and hosted web app on Vercel

Realistic Hard Images, Independent Study   **Dec 2023**
Python, MetaAPI, LeonardoAI API, OpenAI API
➢ Automated Instagram account that generates and posts absurd images with immense comedic value
➢ Worked with Meta, Leonardo.ai and OpenAI APIs, fully written in Python
➢ Undertook project to gain valuable knowledge on prompt engineering and cemented API skills

Petduino, Langara College   **Apr 2023**
C++, Arduino, SolidWorks, Stepper motor driver
➢ Soley managed both software and hardware for an automated pet food dispenser in a 4 person team
➢ Wrote software in C++ for Arduino to provide programmable settings displayed on LCD screen
➢ Thoroughly documented the entire prototyping and design process in the project charter for clients