

SEAN WOTHERSPOON

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SKILLS

Languages: Java, Scala, Python, TypeScript, JavaScript, SQL, HTML5, CSS, BASH, C, C++

Frameworks/Libraries: React, Angular, Next.js, Django, TailwindCSS, Tesseract

Tools & Technologies: Git, Docker, AWS, OCI, Apache Spark, Apache Airflow, Linux, PostgreSQL, MSSQL, Nginx, Kubernetes

TECHNICAL EXPERIENCE

Data Engineer Co-op

January 2025 - August 2025

Samsung R&D

Vancouver, BC

- **Built** ETL pipelines for **Samsung Health's data infrastructure** using **Apache Airflow and Spark**
- **Aligned** ETL development with business needs through cross-functional meetings on **data strategy and engineering priorities**
- **Identified and resolved** inconsistent data types in **test data generators**, to prevent ETL transformation errors and improve data pipeline reliability

Director of Technology

October 2024 - Present

SFU Open Source Development Club

Burnaby, BC

- **Recruited** and **trained** coordinators, implementing an onboarding process to ensure **team readiness** and efficient role assignment
- **Developed** a **documentation tool** to help new members learn **technical skills** and contribute **effectively**
- **Guided** project leads with **best practices and technical advice**, ensuring successful project execution

Software Engineer Intern

October 2024 - November 2024

ViRA360

Vancouver, BC

- **Engineered** the Smart Productivity Analyser, a Next.js web app, integrating **user-driven surveys** with dynamic report generation to deliver **personalized** productivity insights
- **Developed** interactive surveys with **automated analysis**, generating **personalized productivity reports**
- **Collaborated** with senior team members to develop new features, **enhancing** user experience

PROJECTS

Mealpository | Angular, Django, PostgreSQL, Docker, Tesseract, Nginx, OCI, TailwindCSS

August 2024

- **Engineered and deployed** a **full-stack recipe management platform** with **Angular** and **Django**, containerized in **Docker**, and hosted on **OCI** with **PostgreSQL** for scalability
- **Configured Nginx** as a reverse proxy with **SSL/TLS** integration for secure connections, improving the platform's reliability and security
- **Automated recipe text extraction** with **Tesseract**, enhancing the user experience by reducing manual data entry efforts by **80%**

TypeAid | React, Django, TailwindCSS

March 2024

- Constructed a **web-based text editor** with a **custom keyboard interface** to enhance accessibility for users with motor disabilities
- Implemented **Token Authentication** to protect user data and preferences, ensuring robust protection
- Developed a **machine learning model** using N-grams for predictive text, reducing keystrokes by **60%**, significantly enhancing the typing experience

EDUCATION

Simon Fraser University

September 2021 – August 2026

Bachelor of Science, Computing Science

Burnaby, BC

- **Relevant Coursework:** Data Structures & Algorithms, Data Science, Software Development Practices, Database Systems, Web Development, Computer Architecture, Biomedical Computing Methods