

SEAN WOTHERSPOON

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SKILLS

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

Frameworks/Libraries: Angular, React, Django, TailwindCSS, Tesseract

Developer Tools/Technologies: Git, PostgreSQL, RESTful APIs, Docker, Nginx, Oracle Cloud Infrastructure (OCI), Linux, MSSQL, Microsoft Azure, Maven

TECHNICAL EXPERIENCE

Director of Technology

October 2024 - Present

SFU Open Source Development Club

Burnaby, BC

- Currently **recruiting and training coordinators** using a structured onboarding process to ensure team readiness and effective role assignment
- **Conducting assessments of the technology infrastructure** and planning upgrades based on feedback and cost analysis to **enhance operational efficiency**
- Providing **ongoing technical support** to project leads, **facilitating successful project execution** through guidance on technology usage and best practices

Web Developer

October 2024 - Present

Downhole Battery Inc.

Calgary, AB

- **Collaborating with a team** to develop a static website showcasing company information, a contact form, and a map feature
- Designing and implementing **user-friendly** interfaces using **HTML, CSS, JavaScript**, and **Figma**
- Utilizing **best practices** to ensure **responsive** and optimized performance across various devices

PROJECTS

AcademiaBot | React, Spring Boot, Google Gemini, PostgreSQL, Docker, Nginx, Tesseract, OCI

October 2024

- Developed the initial frontend design for AcademiaBot, **an academic paper summarization tool**, using **React** and **Figma** mockups, with peers expressing excitement about the UX
- Initiated the development of a **Spring Boot** backend for **efficient API request handling** with **PostgreSQL**
- Designed the integration of **Tesseract** for text extraction from academic papers, resulting in a **95%** reduction in manual data entry, thus **streamlining the summarization process**

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

August 2024

- **Engineered and deployed a full-stack recipe management platform** using **Angular** and **Django**, containerized with **Docker**, and hosted on **OCI** with **PostgreSQL** for scalable and efficient deployment
- **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 – May 2026

Bachelor of Science, Computing Science

Burnaby, BC

Relevant Coursework: Data Structures & Algorithms, Software Development Practices, Database Systems, Web Development, User Interface Design, Computer Architecture, Biomedical Computing Methods