SHELDON **LIANG**

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TECHNICAL SKILLS

Languages: Java, C, C++, Python, Kotlin, HTML, CSS, JavaScript, TypeScript

Frameworks/Libraries: React, Next.js, Tailwind CSS, RESTful, Flask, Jest, Node.js, Express.js

Tools/Database: AWS, Google Cloud, MySQL, PostgreSQL, MongoDB, Git, GitHub, Figma

TECHNICAL EXPERIENCE

HouseCube   **Jun 2023 - Dec 2023**

Web Developer (Part-time)

- Designed and built a web application to streamline communication and task management between cleaning staff and managers, improving coordination and real-time updates across service teams.
- Collaborated closely with the startup team to identify user needs and transform them into functional features, such as task assignment, schedule tracking, and status updates.
- Leveraged a modern tech stack including Next.js, Drizzle, Shadcn UI, and Tailwind CSS to build responsive, user-friendly interfaces and ensure smooth backend integration.

PROJECTS

BG-BOX   **Jan 2025 - May 2025**

Embedded System, Linux Programming, C, Cross Compiling, BeagleY-AI, GPIO

- Built an embedded game system with Tetris and Taiko Master, displayed on a 64×32 RGB LED Matrix.
- Integrated PS4 controller and piezo sensors for user input using SDL and GPIO, with real-time audio and visual feedback.
- Led a 3-person development team, coordinating task distribution, technical decisions, and integration efforts to deliver a fully functional gaming console.

Ratingbnb   **Jan 2025 - Present**

Nextjs, NextUI, Prisma, MySQL, 2FA, Python, Web Scraping

- Engineered a web application enabling Airbnb users to post temporary reviews, addressing the limitation of removed customer feedback on the official platform.
- Implemented web scraping functionality using Python/BeautifulSoup to validate Airbnb listing URLs and extract property details, ensuring data accuracy and reducing manual data entry time.
- Integrated JWT authentication with bcrypt hashing to ensure secure user access and data protection.

PromptSprout   **Jan 2024 - Mar 2024**

Nextjs, Tailwind CSS, MongoDB, OAuth

- Developed a web application for creating, sharing, and discovering AI prompts, enchancing collaborative learning and resource accessibility among users.
- Implemented user authentication with OAuth, enhancing security by securely verifying users directly from existing databases without third party app access.
- Configured MongoDB for data management, utilizing its robust features for data storage and retrieval.

Myfit   **Sep 2023 - Dec 2023**

Kotlin, Google Cloud, MVVM, SQLite

- Developed a comprehensive Android application in Kotlin to capture and display physical activity data, featuring real-time GPS tracking with Google Maps API integration.
- Implemented a data cache using the Room database with a repository and ViewModel, which ensured compile-time verification of SQL queries and improved architectural component integration.
- Integrated a machine learning classifier into the application to recognize various physical activities.

EDUCATION

Simon Fraser University   **Sep 2022 - Dec 2025(Expected)**

Bachelor of Science

- Cum GPA: 3.58 / 4.33