Sayhoon Lee

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EDUCATION

University of Michigan – Ann Arbor Ann Arbor, MI
Bachelor of Science in Computer Science *Sep 2020 – Jan 2025*

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Java, C++, C, SQL
Frontend: React, TypeScript, Vite, HTML, CSS
Backend: Django, Django REST Framework, Flask, Node.js
Databases: PostgreSQL, SQLite, MongoDB
Cloud & Deployment: Google Cloud Platform (Cloud Run, Cloud SQL), Docker, Nginx, Heroku, GitHub Pages
Engineering Fundamentals: RESTful APIs, Object-Oriented Programming (OOP), Asynchronous Programming, API Design

PROJECTS

Personal Portfolio Web Application | *React, TypeScript, Vite, Django*
- Developed a responsive personal portfolio using **React + TypeScript** with **Vite**, emphasizing modular components and maintainable structure.
- Configured a lightweight **Django backend** with **Django Admin** to manage portfolio content without frontend code changes.
- Separated frontend presentation from content management to support scalable updates and cleaner architecture.

Developer-Centric Social Platform (Facebook-Style Clone) | *React, Flask, SQL, Google Cloud Platform*
- Developed a social media application consuming REST APIs for authentication, posts, comments, and likes.
- Implemented dynamic feed rendering and conditional UI updates using **React** state and component composition.
- Deployed backend services on **Google Cloud Run** with relational data persisted in **Cloud SQL**.

Schema-Driven Form Builder Platform | *React, TypeScript, Vite, Vercel*
- Built a schema-driven form builder that dynamically generates form UI from structured JSON definitions.
- Designed reusable components and conditional rendering logic using **React + TypeScript**.
- Implemented a submit workflow that serializes user input into structured JSON output.

Multi-API Data Analytics Dashboard | *React, TypeScript, REST APIs*
- Built a frontend dashboard aggregating stock data, technology news, and weather from multiple external APIs.
- Handled asynchronous data fetching with loading, error, and empty states for improved user experience.
- Focused on clear data presentation, reusable UI components, and efficient state management.

EXPERIENCE

Freelance Software Engineer Sep 2024 – Present
Remote
- Developed responsive websites for individual clients using **React**, focusing on usability and clear content presentation.
- Worked directly with clients to gather requirements and translate needs into functional, user-friendly web pages.
- Deployed and maintained sites using modern cloud and static hosting platforms.

Technical Instructor Sep 2022 – Sep 2024
University of Michigan *Ann Arbor, MI*
- Taught and mentored students in web development fundamentals, backend design, and deployment workflows.
- Delivered instruction on **Data Structures, Algorithms**, and **Object-Oriented Programming in C++**.
- Guided students through **Git/GitHub** collaboration and real-world team coding practices.