

Sayhoon Lee

248-662-7401 | sayhoon77@gmail.com | www.sayhoonlee.com | github.com/sayhoonlee

EDUCATION

University of Michigan – Ann Arbor

Bachelor of Science in Computer Science

Ann Arbor, MI

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

Portfolio Platform | *React, TypeScript, Django, ChatGPT API*

- Built a full-stack personal portfolio using **React + TypeScript** for the frontend and **Django** backend with **SQLite** database.
- Integrated **ChatGPT API** to power an AI chat assistant, enhancing user engagement and demonstrating API integration skills.
- Deployed frontend on **Vercel** and backend on **Railway**, showcasing modern cloud deployment practices and full development lifecycle management.

Resume Builder | *React, TypeScript, Tailwind CSS*

- Developed a modern, interactive resume builder with drag-and-drop functionality using **@dnd-kit** library for intuitive content reordering.
- Implemented real-time preview and print-optimized layouts, demonstrating strong frontend architecture and UX design skills.
- Utilized type-safe data models with **TypeScript** to ensure data integrity and maintainable code structure.

Schema Driven Form Builder | *React, TypeScript, Vite*

- Created a dynamic form generation system that builds surveys and validation logic from JSON schemas.
- Designed reusable UI components with **React** and **TypeScript**, emphasizing modularity and code maintainability.
- Implemented comprehensive form validation and state management for complex multi-step user workflows.

Instagram Clone (Client-side Dynamic Pages) | *JavaScript, HTML, CSS, REST APIs*

- Developed a client-side social media application with dynamic content rendering using **REST APIs** and asynchronous data fetching.
- Implemented interactive feed with client-side state updates for likes, comments, and user interactions without page reloads.
- Built seamless UI interactions using vanilla **JavaScript**, demonstrating core frontend proficiency and API integration skills.

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.