

Elliot Chung

Full Stack Software Engineer

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7612 Seattle Drive, La Mesa CA, 91941

Skills

- **Languages:** JavaScript/TypeScript, Python, C/C++, Go, Rust, Java, Kotlin
 - **Frameworks/Technologies:** React, VueJS, NodeJS, TensorFlow, PyTorch, CUDA, Android, Embedded Systems
 - **Infrastructure & Cloud:** AWS (Lambda, DynamoDB, S3, EC2), Docker, Linux
 - **Developer Tools:** Git, Github, Cursor, Claude Code, VSCode, Figma
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Work Experience

Franklin Wireless - La Mesa, CA *Software Engineer* July 2024 – Present

- Architected and delivered full-stack features for an MDM platform serving thousands of clients, using VueJS, AWS Lambda, and DynamoDB.
 - Led the end-to-end development of a new user dashboard, translating Figma designs into a responsive VueJS front-end, and coordinating AWS services to populate it.
 - Designed and implemented a server-side caching mechanism for a child monitoring platform, filtering non-essential network requests. This reduced the projected storage load by 90% and improved UI history clarity for parents.
 - Owned the development and execution of on-device AI demonstrations for CES 2024, showcasing real-time Facial Recognition and OCR on Qualcomm SoCs.
 - Spearheaded R&D for deploying optimized AI models on resource-constrained 32-bit microcontrollers, creating a proof-of-concept for future products.
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Personal Projects

Custom Programming Language & Cloud Compiler | [GitHub](#) | [Website](#)

- Developed a LISP style compiled language from scratch to understand language concepts.
- Implemented a lexer, parser, and code generator in Rust to produce x86 assembly.
- Exposed the compiler via a Go-based REST API, allowing for cloud compilation from a React front-end.

C++/CUDA Ray Tracing Engine | [GitHub](#)

- Built a ray tracing engine in C++ and CUDA to explore physically simulated graphics algorithms.
- Implemented a Monte Carlo path tracer to render photorealistic images with global illumination, soft shadows, and reflections.
- Features a real-time UI for interactive scene editing

Full-Stack Rubik's Cube Solver | [GitHub](#) | [Website](#)

- Created a full-stack web application that solves any Rubik's Cube state from a user's input.
 - Implemented Thistlethwaite's algorithm in a Python backend to efficiently search the solution space by reducing the problem to a series of smaller subgroup manipulations.
 - Designed and built a responsive and interactive React front-end for cube state visualization and input.
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Education

University of California San Diego

B.S. Computer Science | Business Minor

September 2018 – June 2022