

ETHAN CLAWSIE



github.com/ethanclawsie



ethanclawsie.com



www.linkedin.com/in/ethanclawsie



ethanclawsie@gmail.com

SUMMARY

Third-year CS major at Santa Clara University with hands-on experience in software development, compilers, and full-stack technologies.

TECHNICAL SKILLS

Programming Languages: JavaScript, C++, Python, Go, HTML, CSS

Web & Frameworks: Node.js, Flask, Chrome Manifest V3

Databases: MySQL, Firebase, PostgreSQL

Cloud & DevOps: AWS EC2, AWS Lambda, DigitalOcean, Linux, Git

Compiler Technology: LLVM MLIR.

PROFESSIONAL EXPERIENCE

MLIR COMPILER INTERN: *Mihira AI, Campbell, CA | June 2024 - September 2024*

- Extended the TPP-MLIR project to support a custom TOSA (Tensor Operator Set Architecture) based dialect for a next generation system architecture
- Developed custom transformation passes for TPP-MLIR to enable my work to properly execute on a custom architecture build utilizing the Renode simulator
- Seamlessly integrated teammates' software components to work with mine while porting the project to the internal build system following industry standard best practices
- Transformed my development flow to adopt industry best practices for tooling and debugging
- Incorporated cutting edge AI workflows and tools to accelerate my development to deliver POC demos for the leadership team

PIPELINE INFRASTRUCTURE ENGINEER: *Freelance, Santa Clara, CA | January 2024 - June 2024*

- Collaborated with local business partners throughout the school year to strategize and develop a robust end-to-end stock analysis system and financial data pipeline utilizing AWS EC2 and Lambda
- Implemented an autonomous system for daily web scraping and script execution, generating financial spreadsheets. This enabled investors to access tailored insights and achieve substantial gains
- Developed a secure website with login authentication and IP logging, utilizing Firebase as the backend to ensure data security and provide a personalized experience for users based on their specific investment needs
- Participated in/led weekly meetings to coordinate efforts, refine the project, and continuously improve the system based on user feedback

MEDIA SERVICES: *Santa Clara University, Santa Clara, CA | July 2023 - April 2024*

- Provided technology support services to students, professors, and staff within the campus community
- Worked alongside IT technicians and used quick thinking to solve problems and troubleshoot technical issues on-the-fly

WEB DEVELOPMENT INTERN: *FUTO, Austin, TX | May 2022 - August 2022*

- Worked full-time as a Web Development intern at FUTO, a technology investment and development company
 - Developed a browser extension for Youtube using Javascript and Chrome Manifest V3
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PROJECTS

[YouRater](#) : Extension that provides more in-depth options to reviewing videos on YouTube

[DermAI](#) : Online AI dermatologist created for Hack for Humanity 2023

[Carbon](#) : Gamifying eco-friendliness using the INRIX API

EDUCATION

BS in Computer Science, Santa Clara University: graduation expected June 2026