

SKILLS Javascript, Python, C++, C, Java, Pytorch, numpy, Node, Express, MongoDB, React / Redux, Ruby / Rails, PostgreSQL / SQL, NoSQL, Active Record, Git, AJAX, RESTful routes, CSS

EDUCATION

Georgia Institute of Technology - M.S. Computer Science | 2023-2025

UCLA - B.S. Electrical Engineering | 2016-2020

RELEVANT COURSEWORK

- Deep Learning
- Machine Learning
- Reinforcement Learning
- Natural Language Processing
- Graduate Intro to OS
- Artificial Intelligence
- Intro to Data Mining
- Operating Systems Principles
- Graduate Algorithms
- Intro to Information Security
- Software Construction
- Computer Networks

EXPERIENCE

CIMCON | Software Engineer

May 25 - Present

CIMCON | Software Engineer Intern

Feb 24 - Aug 24

- Built a python package that automates risk and compliance testing for AI models.
- Researched methods to identify the use of AI models in 3rd party software, such as through network analysis, dependency checking, and sandboxing.

IC Chip Cooling Technologies LLC | Engineer

Dec 20 - Sept 23

- Received several patents on utilizing liquid metal thermal interface materials in IC chip packages.
- Created the company website from scratch using React.js.
- Designed microchip cooling systems using Solidworks and collaborated with top IC chip companies and their vendors to integrate these systems into their products.
- Built and programmed custom manufacturing tooling to ensure quality control and increase production speed.

PROJECTS

Delicieux | (Express - MongoDB - Node.js)

[live](#) | [github](#)

A dynamic dietary and grocery management app built using the MERN stack

- Improved user experience by implementing a drag-and-drop feature to add recipes to their weekly plan by dispatching actions to the redux store via JavaScript event listener callbacks that fire upon button click.
- Streamlined component rendering and updating through efficient Redux state management that centralized data into a flattened and intuitive state tree, and avoided N+1 queries with eager loading into the preloaded state.
- Implemented a loading sequence that pulls all of a user's weekly plan, recipe, and profile data into the Redux state upon login, using Javascript promises to create chains of synchronous database queries.

Slack | (React / Redux - Rails 5 - ActionCable / Websockets)

[live](#) | [github](#)

A Fullstack clone of Slack using Ruby / Rails and React / Redux

- Enabled instant messaging and live updates by establishing Websocket connections between users and the server using Rails 5's ActionCable, allowing users to see new messages, reacts, and status changes in real time.
- Implemented an easy-to-use video/voice chatting service using WebRTC and a STUN server to establish peer-to-peer connections between users, and an intuitive notification system to log incoming calls and rejections.
- Leveraged AWS cloud storage to enable custom user profile photos and file sharing.
- Optimized database search speed and reduced app loading times by removing N+1 queries through lazy loading, and ActiveRecord associations and `.includes` method calls that extract data from multiple tables in a single query.