

# ETHAN CHEN

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## WORK EXPERIENCE

### Full Stack Software Engineering | NeuroLeap Corp

April, 2024 – Present

- Deployed & led the development of a Cloud Service enabling medical specialists to design and host custom applications for screening and intervention of individuals with neurological and educational care needs.
- Engineered data analytics driven interactive dashboard and report generation feature, utilizing D3.js for dynamic data visualizations and integrating statistical analysis tools to help users visualize test results, identify trends, and derive actionable insights
- Delivered cloud service deployment via Docker Compose files to orchestrate multi-container environments, facilitating seamless integration of backend services, database, and frontend applications.
- Implemented CI/CD pipelines to automate and streamline database migrations, ensuring seamless deployment and schema updates.
- Configured Nginx as a reverse proxy to distribute incoming client requests to multiple backend services, enhancing scalability, debugging ease, and security.
- Devised RESTful APIs to handle CRUD operations, ensuring robust and scalable interactions with the database.
- Streamlined email automation to improve customer experience and interactivity.
- Oversaw/Directed implementation of JWT role-based authentication for the middleware.

### Frontend Software Engineering Intern | NeuroLeap Corp

Jan, 2023 – April, 2024

- Implemented UI/UX wireframes to main company website.
- Collaborated with developer to integrate translation feature to the site for convenience to out of country users.
- Revamped website by optimizing color schemes, typography and spacing to reduce visual strain and increase session duration of new and current users.

## EDUCATION

University of California San Diego  
B.S. Mathematics-Computer Science  
GPA: 3.418

2020 – April, 2024

## SKILLS

**Languages:** Java, JavaScript, SQL, Python, Go, C#, C++, C  
**Frameworks:** Node.js, React.js, Vue.js, Angular.js  
**Database:** MySQL, PostgreSQL, MongoDB  
**Cloud Platform:** AWS, Google Cloud, Microsoft Azure  
**Other:** Docker, Jenkins, HTML&CSS, SASS

## PROJECTS

### Family Feud Web Socket

- Tech Stack: React.js, Express.js
- Developed a real-time Family Feud game that leverages WebSocket connections to facilitate communication between two devices.
- The game includes a dynamic game board and a host controller, both connecting to a central server on the host machine to facilitate a real-time and in person experience of the game.

### Group Photos Sharing Network

- Tech Stack: React.js, Firebase
- Developed a group photo sharing application designed for sharing photos within specific groups. Users can sign in, create groups, and save photos in organized folders for easy access and management.
- Implemented user authentication allowing users to securely create and manage their accounts and store a variety of data.
- Utilized Firebase to provide real-time updates and synchronization across different devices and users.