

GRANT CHIU

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EXPERIENCE

Super Micro Computer, Inc.

Software Engineer

San Jose, CA

Mar 2024 – Present

- Develop full stack applications with React, Node.js, and Express to create internal tools used daily across the global production line
- Implemented GraphQL with Apollo Server to streamline data fetching and improve API efficiency
- Manage and deploy Kubernetes on a bare metal server, transitioning the deployment management from Ansible to Helm
- Increased unit test coverage to over 95% for most of the existing projects using Jest
- Refactor legacy codebase with modularization and simplifying complex code logic, reducing technical debt
- Created a CI/CD pipeline using Drone CI to automate deployment and testing of applications, ensuring minimal downtime delivery
- Debugged and resolved critical production-level bugs, resulting in a reduction in system downtime and improved application stability
- Design and maintain database services utilizing MariaDB and ScyllaDB, implementing Galera Cluster for syncing, ensuring high availability and data consistency across multiple countries
- Designed, planned, and built a comprehensive development environment for local testing through Docker containers

Informed.IQ

Software Engineer

San Francisco, CA

Nov 2021 – Mar 2023

Venture-backed fintech start up with 50 employees, providing verification services on consumer credit and auto applications using AI

- Optimized extraction algorithms using Ruby on Rails to increase recall and precision rates by 20% for Google OCR data
- Integrated and tested a new API product using Python that accurately calculates applicant income from various documents
- Ensured 100% data accuracy for incoming client information by designing and implementing a RESTful API validator
- Worked on the seamless transition from a monolithic single deployment code base to a microservices architecture
- Developed and maintained Terraform configurations for consistent and reproducible deployments across environments
- Implemented customized metrics for each microservice using AWS CloudWatch, enabling real-time monitoring with dashboards

Equifax

Software Engineer Intern

St. Louis, MO

May 2021 – Aug 2021

- Automated new hire workflow through Java microservices in order to optimize and expedite onboarding process for employees
- Utilized Google Cloud Platform's Firebase, Cloud Firestore, and Kubernetes for secure information storage
- Created unit tests for each microservice using JUnit and Mockito which improved workflows by ensuring reliability and security

Kenway Consulting

Full Stack Developer Intern

Chicago, IL

Aug 2020 – May 2021

- Developed a web application in Angular that calculates each employee's bonus based on a value-cost projection
- Integrated and tested API backend services for the web app using HTML, CSS, TypeScript, and Postman, ensuring seamless functionality and user experience

EDUCATION

University of Illinois at Urbana-Champaign

Master of Computer Science, Major in Computer Science

Urbana, IL

January 2024 - Present

- Relevant Coursework: Applied Machine Learning, Database Systems, Cloud Computing Applications

University of Illinois at Urbana-Champaign

Bachelor of Science, Major in Computer Science and Statistics

Urbana, IL

Aug 2018 – May 2021

GPA: 3.5 / 4.0

- Elected to overload coursework to graduate one year early.
- Spent two semesters on the City Scholars program simultaneously completing coursework and an internship to offset education costs.

PROJECTS

Machine Learning Restaurant Recommender with React and Flask

- Engineered a collaborative filtering machine learning model for a restaurant recommender system, hosted on a Flask backend and processes Yelp's dataset for tailored suggestions
- Developed and integrated a React frontend and successfully hosted the application on AWS Elastic Beanstalk

Django Full Stack Web Application

- Developed a movie web application using the Django framework, enabling users to rate movies with IMDB API integration
- Leveraged SQLite as the backend database to store movie information and user ratings

SKILLS

- Programming Languages: TypeScript, JavaScript, Python, Ruby, Java, C++, Swift, C, Verilog
- Web Development: ReactJS, Node.js, Angular, Django, Ruby on Rails, Vite, HTML, CSS
- Database: PostgreSQL, MySQL, MariaDB, Apache Cassandra, ScyllaDB, DynamoDB, Microsoft SQL Server, MongoDB
- Cloud/Hosting: Amazon Web Services, Google Cloud Platform, Microsoft Azure
- Containerization: Kubernetes, Docker, Helm
- DevOps/Infrastructure: Drone CI, CircleCI, Terraform, Ansible, ArgoCD