Ching Cheng

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TECHNICAL SKILLS

Programming Languages: Python 3, JavaScript ES6+, SQL, HTML5, CSS
System Design: Microservices, Domain-driven design, Message passing, Event sourcing
Back-End: Django 4, PostgreSQL, MongoDB, FastAPI, RabbitMQ
Front-End: DOM manipulation, WebSockets, React, React Hooks, Redux Toolkit
Testing/Deployment: Docker, GitLab, GitHub, Test Driven Development, CI/CD, CapRover

APPLICATION DEVELOPMENT EXPERIENCE

Full Stack Software Engineer | Munch | https://gitlab.com/munchbunch/munch   2023
Munch is a social media platform dedicated to food reviews and recommendations.

- Designed and developed wireframes, database schemas, API endpoints and incorporated backend **user authentication** with **FastAPI** and **JSON Web Tokens** and utilized **PostgreSQL** to organize user data
- Implemented successful **GitLab CI/CD** pipelines and deployed the project via **CapRover** in collaboration with four other software engineers through daily stand-ups and smooth **Git** workflows.

Full Stack Software Engineer | Swift | https://gitlab.com/mschingcheng/swift   2023
Swift is a web application where car dealerships can manage inventory, sales, and service all in one place.

- Built a single-page application made up of **React** components and **React Hooks** to handle state management with connections between **microservices** and data transfer via **RabbitMQ** pollers.
- Developed a dynamic backend in collaboration with a teammate to design and integrate three **microservices** using **Django**, **RESTful APIs, PostgreSQL** to balance server load and leveraged **Docker** for project mobility.

Full Stack Software Developer | Wardrobify | gitlab.com/mschingcheng/wardrobify   2022
Wardrobify is a web application for users to organize and track their closet inventory.

- Designed and developed a full stack application with **Django** backend and **React** frontend and styling with **Bootstrap, HTML**, and **CSS**.
- Integrated **message queueing** between **microservices** via **RabbitMQ** to ensure smooth and efficient scaling.

PROFESSIONAL EXPERIENCE

Software Engineering Immersive Resident | Galvanize   2023 – Present

- Assist with **debugging/troubleshooting** and deliver technical instruction to reinforce code fluency, readability, and best practices.
- Provide expert-level consults on projects using a tech stack that includes **Django, FastAPI, GitLab, CI/CD, React, Docker, PostgreSQL and CapRover**.
- Mentor **90+ junior engineers** on **Python** and **JavaScript** fundamentals and development of **full stack** applications.

General Education Teacher | *Lakewood Elementary School*   2017 – 2021

- Improved student academic performance by 9% by utilizing inclusive and differentiated instructional strategies to support students' diverse learning needs in whole-class and small group instruction.
- Boosted student engagement by 12% by creating and implementing a curriculum to activate student interest and participation while embedding learning in real-life contexts.

Grade Level Team Lead | *Sunnyvale School District*   2019 – 2020

- Ensured quality of education across school sites by planning and executing curriculum according to research-based practices and district goals while overseeing team meetings on and off-site.
- Maintained best teaching practices district-wide by training teachers on how to implement and align research-based strategies with Common Core State Standards through professional development workshops.

EDUCATION

Hack Reactor | Advanced Software Engineering Certificate   2023
Stanford University | M.A. in Education, CA Multiple Subject Teaching Credential   2017
San Jose State University | B.A. in Child and Adolescent Development   2015