Jenny Chau

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Former biotech molecular biologist turned software engineer with experience solving complex problems through experimentation, data analysis, and critical thinking. Proficient in implementing full stack technologies including TypeScript, React, Python, and Flask to develop scalable, responsive, and user-friendly web applications. I thrive in face-paced, collaborative environments and bring a detail-oriented and goal-driven mindset with a commitment to continuous learning.

SKILLS
Languages: JavaScript, Typescript, HTML5, CSS3, Python
Frameworks/Libraries: React, Bootstrap, Flask, Marshmallow
Databases/Tools/Dev Ops: SQL, Github, RESTful APIs, JWT, Firebase/Firestore, Swagger, Github Actions
Certifications: Coding Temple - Full Stack Development

PROJECTS
E-Commerce Web App - Frontend Software Engineer
Technologies: HTML, CSS, Typescript, React, Node.js, Redux Toolkit, JSON, Firebase/Firestore, Jest
- Built a responsive e-commerce web app with user authentication, profile management, and full CRUD functionality for products and user accounts.
- Developed a dynamic shopping cart with quantity adjustments, item removal, and checkout flow that generates and tracks user orders.
- Implemented real-time database updates with Firebase/Firestore and designed scalable, reusable React components for a seamless user experience.

Mechanic Shop API - Backend Software Engineer
Technologies: Python, Flask, SQLAlchemy, Marshmallow, MySQL, JWT, Postman, Swagger
- Developed a RESTful API to manage customers, mechanics, inventory, and service tickets, implementing complex relationships including one-to-many and many-to-many associations.
- Built secure authentication and authorization using JWT tokens, with full CRUD functionality across all models and role-based access for customers and mechanics.
- Designed, tested (unittests), and deployed the API with Swagger documentation and a CI/CD pipeline on Render, ensuring scalable, maintainable, and production-ready backend services.

EXPERIENCE
Software Engineer Trainee - *Coding Temple* | Remote   03/2025 - Present
Technologies: HTML, CSS, Javascript, React, Flask, MySQL, Node.js, Python, Postman, JSON
- Rebuilt a website using HTML, CSS, and the Bootstrap framework, gaining hands-on experience with layout design, responsive UI, and front-end styling.
- Created a basic online store interface with React to learn how to connect databases and manage user interaction.
- Developed a turn-based battle game using Python, strengthening foundational programming logic and problem-solving skills.
- Built a simple e-commerce application using Python and MySQL to deepen my understanding of backend development and API integration architecture.
- Strong collaborator with clear communication skills, able to contribute effectively in team environments and explain technical concepts to diverse audiences.

Senior Research Associate - *Gigagen* | San Carlos, CA   09/2024 - Present
Research Associate - *Gigagen* | San Carlos, CA   09/2022 - 09/2024
- Executed over 200+ complex lab experiments utilizing critical thinking and problem-solving skills, resulting in a published research paper and three new methods used to deepen understanding of our drug products.
- Maintained organized and detailed documentation of experiments to troubleshoot unexpected results and refine the protocol, resulting in improved data accuracy and precision.
- Collaborated with fellow scientists to exchange insights and guide experimental direction, contributing to more targeted study designs and alignment with broader research objectives.
- Adapted to changes in project priorities, demonstrating flexibility and responsiveness to company goals.

EDUCATION
Coding Temple, *Certificate - Software Engineering*
University of California, Berkeley, *B.A. Molecular and Cell Biology, Immunology and Pathogenesis*