JENNIFER ZHANG

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EDUCATION

University of California, Irvine | Irvine, CA   September 2022 – Present
B.S. Informatics
Minor in Health Informatics

EXPERIENCE

Amazon Web Services (AWS), *Cloud Support Associate Intern*, Seattle, WA | June 2025 – Sept 2025
- Delivered hands-on technical support across AWS services by analyzing customer-like scenarios and identifying root causes related to infrastructure misconfigurations and security controls.
- Created automation scripts and AI-enhanced tools to simulate large-scale ECS/EC2 deployments with VPC routing and load balancing.
- Deployed and tested container-based applications with Docker in isolated environments to ensure resiliency and CI integration.
- Developed and evaluated AI/ML prototypes using Amazon SageMaker and Bedrock, including prompt engineering and LLM deployment using Claude and OpenAI.
- Drafted internal technical documentation (BRDs, six-pagers, PRFAQs) to outline architectural decisions and customer-facing use cases in cloud-based tooling.

NASA (capstone)**,** *Web Game Developer,* Irvine, CA | Jan 2025 – June 2025
- Built a space exploration puzzle web-game from the ground up with Unity (C#) in partnership with NASA's Psyche Mission and Arizona State University.
- Integrated CMS-style workflows and contributed to requirement documentation, UI spec writing, and reusable game component logic.
- Managed version control, sprint planning, and stakeholder updates using GitHub Projects and CI pipelines.

Young Scholars Institute, *Administrative Assistant,* San Marino, CA | June 2019 – June 2025
- Lead digital transformation by digitizing student records, automating office workflows, and creating documentation to streamline future system enhancements
- Installed and configured software and hardware on office computers, ensuring proper system integrations and troubleshooting issues.

VOJO Silk, *UI/UX Designer & Front-End Web Developer,* Remote | June 2024 – Oct 2024
- Led the visual redesign of a Shopify storefront using HTML/CSS, Liquid, and JavaScript, boosting mobile UX and navigation performance by 60%
- Developed modular UI components and designed Pantone-inspired visuals, creating brand consistency across desktop and mobile.

PROJECT HIGHLIGHTS

[AWS] Highly Available and Auto-Scaling Cloud E-commerce Platform
- Tools: AWS EC2, ECS, S3, CloudWatch, Auto Scaling Groups, Docker, Apache, Load Balancer, WAF
- Built a fully containerized e-commerce backend with Fargate and EC2, using CloudWatch and Auto Scaling to ensure performance under high load.

[CS 178] IMDB Sentiment Analysis with Neural Networks
- Tools: TensorFlow, Keras, NumPy, Pandas, Scikit-learn
- Explored movie reviews using neural networks and other models to identify trends, clean missing data, and reduce outliers; applied cross-validation and tuning to prevent overfitting while refining models for accuracy.

CERTIFICATIONS

AWS Certified Solutions Architect – Amazon Web Services (Aug 2025)
AWS Certified Machine Learning – Amazon Web Services (Aug 2025)
AWS Certified AI Practitioner – Amazon Web Services (Jul 2025)

TECHNICAL SKILLS

Languages: JavaScript, HTML/CSS, C#, Python, Java, C++, Bash
Frameworks & Tools: React, Node.js, Flask, Git, Unity, SQL, Figma, AWS (EC2, S3, VPC, Bedrock, SageMaker, DynamoDB, CloudWatch, CloudFormation), Docker, VS Code, TensorFlow, Scikit-learn, Git, GitHub