Zihua Li

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Education	**University of California, Santa Cruz** Bachelor of Science in Computer Science, minor in Mathematics 3.4 GPA	**Sep 2021 - Mar 2025**

Career Objective

Persistent in my efforts and undeterred by challenges presented, I usually strive to find the best results rather than shy away from them. My endless curiosity, infectious self-motivation, and collaborative spirit and team building qualities will make me a credible candidate for roles in the tech industry.

Experience

Compal — **April 2025 - Present**, Houston, TX
Quality Assurance Engineer

Performing Quality Assurance at Bizcom Electronics, a Compal company, specializing in motherboard testing, repair, and BGA rework. Maintaining SFIS systems, FTP servers, and SQL databases, analyzing data with IBM SPSS, Python, various Machine Learning frameworks as well as Power BI to improve product quality and yield, tracking and monitoring product quality trends. Interpreting manufacturing or design flaws identified through testing, communicating technical details clearly between Fault Analysis Engineers, Product Engineers, supervisors, and workers to implement data-driven solutions into our SOPs. Conducting quality audits and inspections, Documenting and reporting quality issues, ensuring compliance with quality standards (ISO 9001, IPC 610). Establishing compliance with NIST CSF cybersecurity framework. Implementing SIEM and Endpoint protection solutions and managing these services. Managing Windows Active Directory and strengthening the security of domain controllers. Managing the VMware ESXi vSphere platform and Cisco ASA. Implementing and managing AD Certificate Authority service and version control software system, promoting code-signing and version control practices company-wide. Designing the company website.

University of California, Santa Cruz — **Sep 2022 - Mar 2023**, Santa Cruz, CA
University Catering Staff

Driving, food-prep, cleaning, serving, customer service.

University of California, Santa Cruz — **Mar 2022 - Jun 2022**, Santa Cruz, CA
Notetaker for Disability Resource Center

Provide lecture notes to students with disabilities.

Projects

Spatio-Temporal Traffic Prediction Model — **Sep 2024 - Dec 2024**
https://github.com/lizihuasteven/ucsc-cse-144

Received highest report rating in CSE 144: Applied Machine Learning.
Integrating Graph Convolutional Networks and LSTM with Sinusoidal Time Encoding for Enhanced Spatio-Temporal Traffic Volume Prediction. 12 monitoring nodes in Santa Cruz, CA, traffic footages processed using pre-trained CNN model YOLOv8.

Skills

AI / ML

Prompt Engineering, Neural Networks, Data Science

Computer Architecture / Systems

Operating Systems, RISC-V, Digital Circuits, Assembly, Linux

Coding

C/C++, Python

Cryptography

PRF/PRG/PRP, Searchable Encryption

Web Development

Nginx, MySQL, Apache, HTML, CSS

Mathematics / Statistics

Number Theory, Vector Calculus, Probability Theory, Classical/Bayesian Inference

Arts

Audition, Photoshop, Premiere Pro, Cubase, Piano, Saxophone, Recording/Mixing, Technical Writing

Organizations

IEEE — **Jan 2022 - Present**

BCS, The Chartered Institute for IT — **Sep 2022 - Present**

Languages

Mandarin Chinese, English