

Steven Xie

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Education

University of California, Irvine <i>Major: Master of Science in Data Science</i>	09/2023 – 03/2025
University of California, Santa Cruz <i>Major: Bachelor of Science in Computer Science</i>	09/2021 – 06/2023

Skills

Programming: Python, Java, Go, HTML/CSS, JavaScript, TypeScript, C/C++, Assembly, MATLAB, R
Frameworks: React, Redux, Bootstrap, Express, Node.js, PySpark, Apache Flink, Angular, Django, Flask, Spring Boot
Others: PostgreSQL, MySQL, Apache Hive, MongoDB, Git, Bitbucket, PowerBI, AWS, Machine Learning Models

Experience

Cybersecurity Researcher <i>Johnson & Johnson Irvine, CA</i>	09/2024 – 12/2024
<ul style="list-style-type: none">Led a team to identify patch bypass patterns in Windows 10 version 1809 using raw data detection and unsupervised learning, highlighting a 100-150 day vulnerability recurrence window.Utilized dynamic programming and cosine similarity metrics to improve clustering accuracy, enabling precise detection of bypass trends and actionable update recommendations.Implemented Python for exploratory data analysis and clustering with pandas, scikit-learn, and NumPy, achieving insights that optimized J&J's update strategy for improved security and cost efficiency.Collaborated with J&J stakeholders to translate findings into practical cybersecurity protocols, emphasizing base-level and class-level CWE risks for targeted mitigation.	
Software Development Engineer Intern <i>Nathaniel Home Inc. Rancho Cucamonga, CA</i>	06/2023 – 09/2023
<ul style="list-style-type: none">Led the development of a comprehensive e-commerce platform using the MERN stack and integrating third-party APIs to deliver a feature-rich online shopping experience.Utilized React and Redux to create an intuitive user interface for buyers to explore store categories, products, and brands, as well as for sellers/merchants to manage brand components.Implemented server-side logic and routing with Node.js and Express, and used Mongoose schemas to model data and interact with MongoDB. Integrated Redux Thunk middleware to handle asynchronous actions and enhance overall performance.	
Software Development Engineer Intern <i>Kemian Supply Chain Management Co. GuangDong, China</i>	06/2022 – 09/2022
<ul style="list-style-type: none">Employed Pandas, Numpy and R for data wrangling, ensuring data quality through missing value imputation, categorical variable encoding, and feature normalization.Experimented with PyTorch for deep learning models and scikit-learn for regression analyses, achieving a 6% improvement in sales forecast accuracy and enhancing inventory management by 5%Applied k-means and hierarchical clustering for effective customer segmentation, enabling targeted marketing strategies that increased engagement by 8%.	
Front-end Developer Intern <i>UC Santa Cruz Chinese Alumni Association Santa Cruz, CA</i>	11/2021 - 02/2022
<ul style="list-style-type: none">Developed the official website for UC Santa Cruz Chinese Alumni Association for 400+ alumni to connect with each other. Used Angular framework and HTML5, CSS, JavaScript, and TypeScript to build the website, including the user login component, event list component, header component, footer component, etc.Utilized Postman for building and testing APIs, Github for project management, and JIRA as a project management tool to coordinate back-end debugging and fulfill UX requirementsDesigned the architecture of scalable and reusable UI components, leading to a 10% reduction in development time, accelerated the deployment of new features and improving maintainability of the website.	

Projects

Distributed File Storage System	02/2023 – 03/2023
<ul style="list-style-type: none">Utilized Golang and gRPC to create a fault-tolerant, distributed, scalable cloud-based Dropbox-like file storage app.Utilized consistent hashing to scale the service and used Raft consensus algorithm for fault-tolerance.Enabled multiple clients for CRUD operations and concurrently connect to app to access a common shared set of files.	