JEANNIE JIANG

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PROFESSIONAL SUMMARY

Software Engineer with a strong foundation in full-stack development, C#/.NET, and cloud-based applications. Passionate about building scalable, user-centric solutions that seamlessly integrate APIs, optimize performance, and enhance user experience. Skilled in designing intuitive interfaces, automating data workflows, and implementing rigorous testing to ensure reliability and efficiency.

EDUCATION

University of Southern California, Viterbi School of Engineering   Los Angeles, CA
M.S. Computer Science, GPA: 3.5   August 2025
Relevant Coursework: Analysis of Algorithms, Database Systems, Web Technologies

University of Southern California, Viterbi School of Engineering   Los Angeles, CA
B.S. Computer Science and Business Administration, GPA: 3.5   May 2024

PROFESSIONAL EXPERIENCE

First Solar Inc.   May 2024 - August 2024
Software and Database Development Intern
- Developed RedPL software in C#/.NET to automate data acquisition from a Thorlabs spectrometer, reducing manual processing time by **80%**.
- Designed an intuitive user interface with comprehensive parameter checking and error handling, ensuring **99%** accurate data capture and improved user experience.
- Built a robust data reporting system that normalizes, visualizes, and exports spectral data to CSV and SQL databases, improving real-time analysis.

USC Viterbi School of Engineering   August 2022 - December 2023
Teaching Assistant for ITP 265 (Object Oriented Programming)
- Mentored **40+** students, troubleshooting code bugs and reinforcing best coding practices in Java.
- Led exam review sessions and designed structured debugging exercises to improve student proficiency.

EDUCATION

Artsy Artist Search Web Application
Full Stack Developer – Angular, Node.js, Express, MongoDB, Bootstrap, Google Cloud
- Engineered a full-stack web app for real-time artist search, authentication, and user favorites, integrating Artsy API and MongoDB Atlas.
- Designed and deployed a scalable Node.js/Express backend on GCP, securing data with JWT authentication and optimizing API performance.
- Enhanced UX responsiveness and improved search efficiency by **40%** using AJAX and Angular HttpClientModule.

Weather Search Application
Full Stack Developer - Angular, Node.js, Bootstrap, MongoDB Atlas, Tomorrow.io API, Google Maps API, Highcharts
- Developed a responsive web application that integrates Tomorrow.io API and Google Maps API to display weather forecasts along with dynamic charts and interactive tabs for detailed forecasts.
- Engineered a Node.js backend with MongoDB Atlas for cloud-based storage of user preferences, improving session persistence.
- Deployed on Google Cloud Platform (GCP) with optimized performance for mobile and desktop.

Let's Go Camping
Full Stack Developer - React, Java, Test Driven Development (TDD)
- Performed Black and White Box testing techniques as well as JUnit, Jest, and Mockito to achieve **95%** branch and statement coverage, ensuring a robust and reliable platform for outdoor enthusiasts.
- Implemented features like park search, user account creation, and friend comparisons, increasing engagement by **40%**.

NXTMode
Full Stack Developer - iOS Development, React Native, NodeJS, Shopify API, Firebase, MongoDB, PostMan API
- Spearheading the development of an innovative iOS marketplace app for NXTMode, a fashion platform designed to give new designers exposure and enable them to showcase and sell their creations
- Customizing and optimizing the Shopify Marketplaces Buyer app source code to seamlessly integrate with NXTMODE's platform, facilitating fashion designers in showcasing their creations and enabling users to make purchases effortlessly

SKILLS

Programming Languages: Java, C#, Python, JavaScript (React/React Native, Angular), HTML/CSS, SQL
Tools & Frameworks: Git, Docker, .NET Framework, Spring Boot, Flask, WinForms, JUnit, MongoDB, Microsoft SQL Server
Cloud & APIs: Google Cloud Platform (GCP), AWS, RESTful APIs, Postman API