Jeet Kanani

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SUMMARY

Results-driven Software Engineer with expertise in full-stack development, cloud computing, and scalable software design. Skilled in object-oriented programming, secure application development, and optimizing software performance through automation, unit testing, and robust debugging practices. Proficient in Python, JavaScript, C++, and RESTful API development, with hands-on experience in integrating solutions across the entire software lifecycle for end-to-end development and scalability.

WORK EXPERIENCE

Technical Support Student Assistant | University of Texas at Dallas *Jan 2025 - Present*

- Evaluated and graded assignments for the C/C++ Programming in a UNIX Environment course, ensuring consistency, fairness, and adherence to the software lifecycle standards.
- Provided constructive feedback to students, helping them improve their coding practices and problem-solving skills.

Instructional Student Assistant | University of Texas at Dallas *Aug 2024 - Dec 2024*

- Developed secure online forms using Qualtrics API, automating TA assignments and reducing manual data entry by 80%.
- Designed a RESTful API pipeline and Python-based data parsers for seamless CSV/JSON processing and Excel compatibility.

Machine Learning and General Management Intern |TalentServe *May 2022 - Jul 2022*

- Built machine learning models (recommendation systems) to analyze stock market trends, reducing analysis time by 30%.
- Collaborated with engineering and product teams to embed data analytics features that informed smarter decisions.
- Integrated CI/CD workflows for model deployment, reducing manual intervention in ML pipeline execution.

Front-End Developer | Vision InfoTech *May 2021 - Jul 2021*

- Researched and structured the web application, reducing design turnaround time by 40%.
- Designed the website's static interface, improving load speed by 25% while maintaining a clean, user-friendly layout.
- Contributed to the development of reusable UI components and resolved cross-browser issues, emphasizing end-to-end debugging, automation, troubleshooting, and consistent code quality.

RESEARCH PUBLICATIONS AND PROJECTS

Cardiovascular Risk Detection System Using Machine Learning Algorithms| Conference Paper Link *Aug 2021 - Jan 2022*

- Engineered a high-accuracy cardiovascular risk prediction model using machine learning techniques, applying rigorous unit testing, effective debugging, and optimization of feature selection for real-time risk assessment.

Big Data Predictive Analytics for CardioVascular Risk Detection | Conference Paper Link *Jul 2021 - Oct 2021*

- Developed a machine learning-driven analytics framework leveraging ANN and ensemble learning, focusing on integration and automation of data preprocessing to ensure scalability and efficiency.

Deep Learning-based Pest Classification in Soybean Crop using ResNet-50 | Conference Paper Link *Dec 2020 - Apr 2021*

- Designed and deployed an AI-driven pest detection system using ResNet-50, incorporating data augmentation and cloud integration to enhance scalability and facilitate real-time debugging and performance monitoring.

Travel Deals Web Application |HTML, CSS, JavaScript, jQuery, AJAX, PHP, MySQL, XAMPP *Aug 2024 - Nov 2024*

- Developed a full-stack travel booking web application with user authentication, session management, and real-time flight search. Incorporated a RESTful API and database-driven hotel booking system, ensuring seamless integration and scalable automation.

Scalable Microtransactions Payment System| Python, Go, AWS, PostgreSQL, Docker *Aug 2024 - Nov 2024*

- Developed a scalable microtransactions payment system enabling secure transactions and real-time reconciliation via AWS Lambda and S3. Emphasized robust debugging, automation, and comprehensive integration for optimal fraud detection and cost efficiency.

EDUCATION

University of Texas at Dallas | Dallas, TX *Aug 2023 - May 2025*

Master of Science in Computer Science | Concentration: Intelligent Systems **GPA:** 3.5/4.0

Key Coursework: Advanced Data Structures and Algorithms, Advanced Web Engineering, Information Retrieval, Machine Learning, Artificial Intelligence, Natural Language Processing, Software Maintenance and Re-Engineering, Computer Vision

Pandit Deendayal Energy University | India *Aug 2019 - May 2023*

Bachelor of Technology in Computer Engineering **CGPA:** 9.23/10.0

Key Coursework: Object-Oriented Programming, Data Structures, Data Mining, Database Management Systems, Software Engineering, Design and Analysis of Algorithms, Operating Systems, System Software and Compiler Design, Machine Learning

TECHNICAL SKILLS

Programming Languages: Python, PHP, JavaScript, C#, SQL, Java, TypeScript, C/C++, Shell Scripting

Frameworks, Libraries & Methodologies: Django, Angular, ASP.NET, React, Node.js, Agile, Spring, PyTorch, Spark, Linux

Databases, Platforms, Tools & Servers: MySQL, Hadoop, PostgreSQL, MongoDB, AWS, XAMPP, Git

CERTIFICATIONS

Fintech Engineering Virtual Experience by Goldman Sachs — Certificate Link

Solutions Architecture Virtual Experience Program by Amazon Web Service — Certificate Link

The Complete Full Stack Web Development Bootcamp — Certificate Link

Software Engineering Virtual Program by JP Morgan — Certificate Link