

KEYUR MADANE

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PROFESSIONAL SUMMARY

International Software Engineer with 3+ years delivering scalable, high-performance solutions and reducing system response time by 85%. Skilled in leading cross-functional teams across time zones. Currently pursuing a Master's in Software Engineering while contributing to accessibility research and educational technology innovation.

EDUCATION

Master of Software Engineering , Arizona State University	GPA 3.72	Expected May 2026
Bachelor of Computer Engineering , Pune University	GPA 9.07	2018 - 2021

SKILLS

Programming Languages	Java, Python, C/C++, JavaScript
Front-End	HTML/CSS, Bootstrap, React.js
Frameworks, Tools, Database Systems & Concepts	Django, Spring Boot, SQL, Node.js, REST APIs, MySQL, PostgreSQL, Salesforce, Heroku
Soft Skills	Data Structures & Algorithms, Agile, Web Development, Operating Systems, SDLC, Back-end Development, API Development, Continuous Integration
	Problem-Solving, Code Review & Bug Fixing, Adaptability & Quick Learning

EXPERIENCE

Research Assistant - Software Engineer	May 2025 - Aug 2025
Arizona State University	Tempe, AZ, USA

- Automated Qualtrics survey dispatch via Spring Boot with CSV validation, cutting manual setup time by 90%.
- Created custom CSV validation and error handling to ensure 100% data accuracy in survey scheduling.
- Developing a Flutter cross-platform app with 10 gamified modules for dyslexic learners on Android and iOS.
- Implemented adaptive gameplay and progression tracking to personalize difficulty and enhance learning outcomes.

Senior Software Engineer	Aug 2021 - Jul 2024
Infosys	Pune, MH, India

- Integrated and significantly enhanced the performance and scalability of an existing CRM model by leveraging Heroku as middleware, reducing system response time from 7 seconds to just 1 second and improving data flow across teams.
- Developed a Salesforce cleanup process, boosting efficiency by 5% through automated removal of unused customer records.
- Designed an API in Salesforce to handle 10 different scenarios, improving data processing efficiency by 25%.
- Upgraded the technical architecture of the existing custom Ant used for Salesforce deployment from version 50 to version 57.
- Improved deployment efficiency and accuracy by upgrading and customizing Java-based tools, reducing deployment time by 30%, minimizing manual intervention, and ensuring seamless, reliable Salesforce operations across cross-functional teams.
- Optimized CRM systems to enhance user experience and responsiveness, leading to a 15% reduction in support tickets.

PROJECTS

MCQ Generator Using ChatGPT API

- Built a Django web application utilizing the ChatGPT API to automate the generation of multiple-choice questions (MCQs) from input text, delivering a scalable, API-driven solution to optimize content generation pipelines.
- Architected a robust system combining Django and Spring Boot within a scalable microservices-based architecture, streamlining data transfer and storage of MCQs in a database for seamless retrieval and management.

Chat Application with Multithreading and Sockets

- Engineered a real-time chat application applying Java's multithreading capabilities to support 50+ concurrent client connections, ensuring efficient message exchange and responsiveness in high-demand environments without lag.
- Developed and optimized socket programming modules to enable secure and low-latency end-to-end communication between distributed clients and server, achieving over 95% message delivery success rate under high network load conditions.

Scheme Management Portal for State Government

- Developed a Django web app during a hackathon for managing government schemes, benefiting over 1,000+ personnel.
- Built fund management features to minimize corruption risks by up to 40% and improve workflow efficiency.

EXTRA-CURRICULAR ACTIVITIES

- Participated in 10+ workshops hosted by the Software Developers Association at Arizona State University, gaining insights into industry trends and emerging technologies.
- Finalist in Smart India Hackathon and IBM Hackathon, having competed among over 1,000 teams.
- Led the 'Acunetix' event at DYPIT's Department of Computer Engineering, overseeing 350 participants.

LEADERSHIP

- Led teams in multiple hackathons at state and national levels, including Smart India Hackathon and IBM Hackathon, successfully managing cross-functional collaboration and rapid solution development under tight deadlines.