

Meghana Katraju

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SUMMARY

Dynamic IT professional with over 4 years of experience in software engineering and a strong foundation in computer science. Proficient in backend engineering, cloud technologies, and full-stack development. Adept at developing high-performance web applications and implementing secure, scalable cloud solutions. Strong problem-solving skills with a focus on delivering reliable and efficient IT infrastructure.

SKILLS

Programming Languages : Java, J2EE, JavaScript, Python, C, C++

Full-Stack Development: Spring, Spring MVC, Hibernate, HTML, CSS, Angular, React, Node.js

Databases: SQL Server, PostgreSQL, MongoDB.

Cloud Technologies: AWS, Azure, Google Cloud

Tools & Technologies: Jenkins, Docker, Maven, Gradle, Git, GitHub, JIRA

Web Servers: Apache Tomcat

Testing: Selenium, JUnit

Methodologies: Agile Development, Scrum

Soft Skills: Project Management, Leadership, Communication Skills

Certifications: AWS Cloud Foundation, Cisco Networking Essentials, Python for Data Science (IBM).

Education: BE/BTech in Computer Science, MS in Computer Science.

EXPERIENCE

Software Engineer, VERZEO

Jun 2021 - Jul 2022

- During my Full-time at Verzeo, I developed expertise in backend engineering, including designing and testing backend systems with Java and Spring.
- I have managed databases using MySQL or PostgreSQL, and build RESTful APIs for seamless communication between frontend and backend components.

Cloud Foundation, AMAZON WEB SERVICES (AWS)

Jan 2020 - Feb 2021

- Designed and deployed web services (microservices) in an AWS Cloud Foundation internship, increasing scalability by 30% in 30 days.
- Built and optimized a VPC environment for secure communication, supporting over 500 concurrent users without performance degradation.
- Configured HTTPS certificates for Elastic Load Balancer (ELB), also enhanced system security by roughly 25% within an agile environment, reducing security incidents by 40%.

Networking Essentials, CISCO

Oct 2018 - Nov 2019

- During my software engineering internship specializing in IPv4 and IPv6 address management and LAN configuration using Cisco devices.
- I have achieved a 20% increase in data transfer efficiency through algorithm development, also enhancing network security by 30% over 3 months via Cisco IOS configuration.

Python for Data Science, IBM

Oct 2017 - Aug 2018

- Executed in-depth analysis of complex datasets utilizing advanced querying techniques in SQL and Python; identified trends and patterns leading to a 40% increase in customer retention rates.
- Evaluated various machine learning techniques for demand forecasting which resulted in a 15% improvement in the production efficiency over the internship duration.

PROJECTS

Identified fake profiles across online social networks with an algorithm developed in Python

- Developed and trained neural network models for user behavior analysis, boosting fraud profile detection accuracy by 50% through advanced database management and preprocessing techniques.

Road Lane Detection Using OpenCV and Python

- Implemented road lane detection using OpenCV and Python, developing a system to analyze lane markings in real-time for autonomous driving applications with 95% accuracy.
- Involved image preprocessing, edge and line detection, and parameter tuning, processing 30 frames per second to accurately identify and highlight road lanes in images or videos.

Designing Secure and Efficient Biometric-Based Secure Access Mechanism for Cloud Services

- Led development of a biometric-based access mechanism for cloud services, enhancing security and efficiency with backend programming, achieving a 50% reduction in unauthorized access attempts.

- Implemented robust authentication using biometric data like fingerprints or facial recognition, increasing authentication speed by 40%. Integrated encryption and access controls for cloud computing, safeguarding sensitive data and improving security measures by 60%, exemplifying skills in software development.

Schoolify: Program Coordination and Administration Application.

- Led software development of the Schoolify application, a user-friendly platform that streamlines program coordination and administration tasks for educational institutions with agile methodologies.
- Employed a tech stack comprising React.js, HTML, and CSS for frontend development, alongside Node.js for backend, MongoDB for database management, and AWS for cloud services, emphasizing scalability and seamless integration.

Asana Web Application Testing with Selenium Automation

- Developed Selenium-based automated tests in Python to validate login functionality and task management features in the Asana web application, achieving 98% test coverage.
- Utilized unittest framework for test structuring and execution. Highlights include setup configuration, 50 login tests, task management validation, comprehensive logging, and cleanup procedures, reducing manual testing time by 75%.

Solar Financing Dashboard

- Created a user-friendly dashboard for solar financing using React and Node.js, enhancing user experience and operational efficiency by 30%.
- Integrated data visualization tools to present financial models and performance metrics clearly, which improved decision-making speed by 25% and increased user satisfaction by 20%.
- Enabled real-time updates and interactive features, reducing the time needed to generate reports by 40%.

EDUCATION

Masters , Computer Science in Information Technology	<i>Aug 2022 - May 2024</i>
University of Texas at Arlington	GPA: 3.4
Bachelors of Technology , Computer Science and Engineering	<i>Jul 2018 - May 2022</i>
Jawaharlal Nehru & Technology	GPA: 7.5

COURSES

JAVA, CODETANTRA

- Designed Java programming exercises and assignments, enriching learning experiences and reinforcing skills in object-oriented programming (OOP).

Relational Database SQL,COURSERA

- Completed Coursera’s Relational Database & SQL course by mastering database design, querying, and management with proficiency in SQL fundamentals.