

Lakshitha R Jain

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WORK EXPERIENCE

Graduate Teaching Assistant | *The University of Alabama in Huntsville (UAH)*

Aug 2021 - Dec 2023

- Revolutionized student learning in C Programming, Tech Multimedia & Gaming, and Java by devising and implementing groundbreaking teaching strategies, dramatically boosting engagement and comprehension.
- Cultivated a synergistic partnership with faculty, refining and deploying advanced teaching methods that propelled academic excellence.
- Merged traditional lectures with dynamic interactive sessions and hands-on projects, magnifying student engagement and mastery of intricate subjects.
- Transformed student outcomes by overhauling curricula, mentoring for excellence, and streamlining lab management, markedly elevating performance evaluations.

Senior Software Development Engineer | *Zeta Suite*

Jan 2021 - Aug 2021

- Slashed project timelines by 30% and elevated user experience by spearheading Angular application optimization for a top bank, driven by meticulous requirement analysis and innovative solution engineering.
- Led the development of a React Native and Angular-based banking support application, boosting operational efficiency and reducing response times by 10%, reflecting strong problem-solving skills and technical proficiency.
- Deployed a FAQ Help Center using HUGO and Angular, reducing support inquiries by 30% and improving customer satisfaction by 20%, showcasing attention to detail and user-focused design.
- Pioneered the adoption of Git and GitHub for version control, fostering a more efficient and cooperative development workflow.
- Leveraged Agile methodologies to amplify team efficiency and fast-track project delivery.
- Mastered frontend testing with Jasmine, guaranteeing the delivery of sturdy and flawless web applications.

Senior Software Development Engineer | *Infrrd Pvt Ltd*

Jul 2017 - Jan 2021

- Crafted Angular and ReactJS solutions that elevated user experience and spiked customer satisfaction by 10% for a leading US real estate firm, showcasing frontend development acumen.
- Rolled out Angular and ReactJS deployments that cut downtime by 12% and lifted user adoption by 15%, underlining expertise in modern web tech and business impact.
- Guided junior developers in frontend tech, doubling team performance and showcasing leadership in HTML, CSS3, JavaScript, TypeScript, Angular, and ReactJS.
- Led project management and teamwork with unmatched precision, utilizing Slack and JIRA and strictly following Agile principles.
- Orchestrated workplace events and led charitable initiatives, enhancing the education of 35 underprivileged Indian children, embodying a commitment to social responsibility.

SKILLS

Programming Languages: JavaScript, TypeScript, Python, Java

Libraries and Frameworks: Angular, React, Vue.js, PyTorch, Pandas, Numpy, Scikit Learn, SciPy, matplotlib, sklearn, SQL, Spring Boot, Hibernate

Web Development & Front-End Technologies: HTML5, CSS3 (SASS), AJAX and APIs, Web Accessibility (WCAG), Cross-Browser Compatibility, Responsive Web Design, jQuery, Node.JS

Tools & Technologies: Git, Jenkins, Docker, Agile Methodologies, DevOps Practices, CI/CD (Jenkins, GitLab CI, GitHub Actions), Test-Driven Development (TDD), RESTful Web Services, Swagger, Postman, NPM

Database Management: SQL, MySQL, PostgreSQL, NoSQL (MongoDB, Cassandra), Hadoop, Spark

Cloud Computing & Security: AWS, Azure, Google Cloud, Cybersecurity Awareness,

Advanced Technical Proficiencies: Multithreading & Concurrency, Design Patterns, Big Data Technologies (Apache Hadoop, Apache Spark, Kafka), Windows Server Environments, Web Architecture, HTTP and REST, Database Storage, Design Fundamentals, AI Coding

EDUCATION

MS in CS at The University Of Alabama in Huntsville

Dec 2023

Big Data Computing, Machine Learning, Advanced OS, DBMS, Cloud Computing, DSA

GPA: 3.7/4.0

BE in CS at Visvesvaraya Technological University (BNMIT) - India

July 2017

JAVA, Python, C/C++, Mathematics, Computer Graphics & Vision, Object Oriented Programming

GPA: 9.0/10

PROJECT EXPERIENCE

Thesis: A Comprehensive Study of AI Bias | *The University of Alabama in Huntsville*

Jan 2022 - Dec 2023

- Directed an interesting study on AI bias using AlexNet, ResNet56, and InceptionV3 within a Python environment to tackle demographic biases in facial recognition technologies.
- Engineered a Python-based framework for bias detection, boosting AI model fairness by 5% with advanced data preprocessing, normalization, feature engineering, and augmentation, laying a strong foundation for bias-free algorithm training.
- Created powerful data visualizations using Matplotlib and Seaborn to uncover and address biases in datasets, leading to more fair and accurate AI models.
- Applied PyTorch and Scikit Learn for comprehensive data analysis, producing visualizations that shaped the development of effective bias mitigation strategies and enhanced model transparency.
- Authored and published a conference paper on ethical AI development strategies, significantly contributing to the discourse on minimizing algorithmic bias.

SpaceX Launch Observer Project | *The University of Alabama in Huntsville*

Aug 2021 - Dec 2021

- Orchestrated the development of a Service-Oriented Architecture (SOA) for monitoring SpaceX launches in real-time, employing Java and Angular to optimize system performance and user engagement.
- Developed and integrated RESTful APIs using Node.js, demonstrating a comprehensive full-stack development skill set from server logic to dynamic client interfaces.
- Employed Agile methodologies and Git for version control to ensure timely project completion, fostering a culture of teamwork and iterative progress.
- Implemented responsive web designs with CSS3 and HTML5, achieving cross-browser compatibility and WCAG accessibility standards, thus expanding user access.

Hotel Management Database Project | *The University of Alabama in Huntsville*

Jan 2022 - May 2022

- Spearheaded the design and development of an advanced hotel management system, integrating Python and JavaScript to enhance operational efficiency by 40%.
- Architected and administered a SQL database, employing Node.js for efficient server-side processing, improving data management and storage capabilities.
- Led comprehensive testing and data validation efforts using Mocha and Chai for JavaScript, cutting system errors by 30% and bolstering system reliability.
- Promoted a collaborative development atmosphere via GitHub, improving code quality and team efficiency, while also ensuring web interfaces adhered to WCAG accessibility guidelines.