Akshay Kumar Teppala

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Git: github.com/TeppalaAkshay

Seeking Full-Time Software Engineer/Frontend Developer/ Full-Stack Developer Roles

EDUCATION

Campbellsville University Louisville, KY
Master of Science in Computer Science; GPA: **3.6** Aug 2022 - May 2024
Coursework: Cyber Security, Artificial Intelligence, Advanced database, Advanced Operating Systems, Advanced Programming Languages, Software engineering, Advanced Topics in Computer Networking and Cyberlaw, Regulations, & Compliance

Jawaharlal Nehru Technological University, Hyderabad Hyderabad, India
Bachelor of Technology in Computer Science and Engineering; CGPA: **6.56/10.0** Aug 2017 - May 2021
Coursework: Computer Programming in C, Data Structures through C++, Java, Web Technologies, Design patterns, Cloud Computing, Cryptography and Network Security, Data Mining, Design and Analysis of Algorithms, Database Management Systems, Computer Organization, Operating Systems, Python, Software Engineering and Advanced Software Engineering, Software Process and Project Management

TECHNICAL SKILLS

- **Programming Languages**: Java, JavaScript, TypeScript, Python, Golang, C++, C#, PHP, XML
- **Frontend Technologies**: React.js, Redux, HTML5, CSS3, Bootstrap, Material-UI
- **Backend Frameworks**: Spring Boot, Node.js, RESTful APIs, Next.js
- **Cloud & DevOps Tools**: AWS, Docker, Kubernetes, Jenkins, GitLab CI, Terraform
- **Databases**: MongoDB, DynamoDB, MySQL, NoSQL
- **Testing Frameworks**: JUnit, Mockito, Cypress, Jest, Enzyme
- **Other Skills:** Kafka, GraphQL, Webpack
- **Certifications:** Azure Fundamentals (AZ900)

WORK EXPERIENCE

Software Developer, Federal Soft Systems Aug 2024 - Present
- Designed and implemented RESTful Java services with Spring Boot, ensuring high availability and scalability.
- Built responsive user interfaces using React.js, Redux, and Bootstrap.
- Enhanced application performance through lazy loading, code-splitting, and optimized database queries.
- Automated testing using JUnit, Mockito, and Cypress for comprehensive coverage.
- Deployed applications on AWS, leveraging EC2, Lambda, and DynamoDB for serverless architecture.
- Ensured ADA compliance following WCAG 2.2 standards, enhancing accessibility.
- **Technologies Used:** React.js, Redux, JavaScript, TypeScript, HTML5, CSS3, Bootstrap, Node.js, AWS (EC2, Lambda, DynamoDB), GraphQL, Jest, Cypress, JUnit, Spring Boot, Jenkins

Software Developer, Creative Soft Technologies – India Mar 2020 - May 2022
- Developed and maintained microservices-based backend systems using Spring Boot and Node.js.
- Streamlined state management in React.js applications using Redux Saga.
- Created CI/CD pipelines using Jenkins, reducing deployment times by 30%.
- Integrated Kafka for real-time data streaming, improving system performance and reliability.
- Conducted load testing with JMeter, identifying and resolving bottlenecks effectively.
- **Technologies Used**: React.js, Redux Saga, JavaScript, Node.js, Spring Boot, HTML5, CSS3, MongoDB, Azure, Jenkins, Kafka, JMeter, Jest, Next.js

ACADEMIC PROJECTS

- **E-Commerce Website**: Developed a responsive and scalable e-commerce web application with features like product listing, cart management, and secure checkout. Enhanced user experience with optimized UI and cross-browser compatibility.
  Technologies Used: React.js, Redux, Node.js, HTML5, CSS3, Bootstrap, MySQL, AWS (Aug - Dec 2022).
- **Employee Attrition and Job Performance Prediction**: Designed a comprehensive data science pipeline to predict employee attrition and evaluate job performance using AI models. Integrated data preprocessing, feature engineering, and predictive modeling for actionable insights.
  Technologies Used: Python, Pandas, NumPy, Scikit-learn, TensorFlow, Matplotlib, Seaborn, SQL (Jan - May 2019).
- **Moving Object Detection**: Developed a system to detect and track moving objects in real-time video streams with 90% accuracy, enabling enhanced video analysis.
  Technologies Used: Python, OpenCV, YOLO, Convolutional Neural Networks (CNNs) (Aug - Dec 2019).
- **Attendance with Face Recognition**: An automated system to track attendance efficiently by detecting and recognizing faces in real-time. Improved tracking efficiency by 50% and reduced manual intervention.
  Technologies Used: Python, OpenCV, Dlib, NumPy, Pandas, MySQL, PyTorch (Aug - Dec 2018).

EXTRA CURRICULAR ACTIVITIES

- **Vice President** of CU Web Technologies Club.
- **President** of Undergraduate Cultural club at Mahaveer Institute of Science and Technology (JNTUH)
- **Department Brand Ambassador** for Merit Labs, that conducts Web Technologies Workshop throughout India.