Abhishek Verma

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EDUCATION

George Mason University
Master of Science in Computer Science; GPA: 3.92

Fairfax, VA
August 2022 - May 2024 (Expected)

National Institute of Technology (NIT)
Bachelor of Technology in Computer Science and Engineering; GPA: 3.64

Jalandhar, India
August 2016 - June 2020

EXPERIENCE

George Mason University
Graduate Teaching Assistant - Software Engineering

Fairfax, VA
August 2022 - Present

- Led lab sessions for 80+ students, facilitating hands-on programming experience in JAVA, JavaScript and Node.js.
- Instructed lab exercises covering OOP concepts like classes, inheritance, APIs, database integration, debugging and testing.

Ballotpedia
Data Engineer Intern

Middleton, WI
June 2023 - August 2023

- Engineered Python-based ETL processes leveraging AWS S3 for large-scale voting datasets. Extracted 50,000+ records from 200+ documents, applied transformative and cleansing procedures and loaded processed data into a SQL database.
- Delivered an AI-powered web application using React.js, Node.js and OpenAI API that extracts representative voting records from PDF files, reducing manual work by 90%.
- Employed batch processing techniques to transform unstructured text and tables from 3500 county voting PDFs into analytical CSV datasets using custom regex scripts.

Info Edge India Ltd (Naukri.com)
Senior Software Engineer

Noida, India
August 2020 - July 2022

- Revamped multiple user interfaces using React.JS, TypeScript and AngularJS yielding in a 16% enhancement in performance, evaluated by PageSpeed Insights. Achieved 95% code coverage with Jest and Enzyme, reducing production bugs by 30%.
- Designed REST and GraphQL APIs leveraging Node.js and implemented client-side rendering using React.JS that reduced page load latency by 40%.
- Built and Collaborated on reusable user profile, jobs, and application microservices with over 90% code reuse using Java, Spring, PHP, MySQL for Naukri.com job portal, enabling 60% faster development across projects.

EKO India Financial Services
Software Developer Engineer Intern

Gurgaon, India
June 2019 - July 2019

- Developed a scalable web-based Twitter Sentiment Analysis tool using Python and Flask, which enabled the customer support team to categorize and respond to 5,000+ customer feedback messages in real-time, leading to a 30% reduction in response time.

PROJECTS

Urgent Unity
Hackathon Project

Fairfax, VA
October 2023 - October 2023

- Architected HIPAA-compliant full-stack web application using MERN stack (MongoDB, Express.js, React.js, Node.js). Built a dashboard showing real-time CPR-certified professionals provider availability metrics, location and urgent case priorities.
- Implemented scalable API endpoints using Node.js facilitating urgent coordination between patients and first responders via AWS Translate's multi-language speech translation and Google Maps for navigation and insurance-aware hospital routing.
- Optimized algorithm for provider ranking, achieving an average dispatch time of 2 minutes for 100 simulated cases.

University FeedbackXpress
Academic Project

Fairfax, VA
January 2023 - May 2023

- Developed elastic and microservices-based applications with user interface using AngularJS, RESTful Web Services, and SpringBoot to collect survey feedback from GMU students, leading to a 30% improvement in page reload time.
- Employed Docker, Kubernetes, Jenkins CI/CD pipeline, and Amazon RDS/SQL for optimal performance, storage, and deployment, contributed to 40% reduction in deployment time.

SKILLS

- **Languages**: Java, Python, JavaScript, TypeScript, C#, C++, C, SQL, PHP, Scala and Go
- **Database**: MySQL, PostgreSQL, MongoDB, SQL Server, Oracle Server, JDBC, BigQuery, Redis
- **Web Technologies**: Spring Boot, React.JS & Redux, Node.Js, REST, AngularJS, Django, Flask, .NET, HTML, jQuery, CSS, Webpack, Babel
- **Big Data**: Apache Spark, MapReduce, Hadoop, Kafka
- **DevOps and Tools**: GIT, Jenkins, Docker, Kubernetes, Terraform, Ansible, Postman, JIRA, AWS, Azure, EC2, S3, GCP, Maven
- **Data Science**: Deep Learning, Machine Learning, NLP, NumPy, Pandas, Scikit-learn, Tensorflow, Pytorch, Statistics