

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

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

- Instructed 20 lab exercises covering OOP concepts like classes, inheritance, APIs, database integration, debugging and testing.
- Led lab sessions for 80 students, facilitating hands-on programming experience in Java, JavaScript and Node.js.

Ballotpedia

Data Engineer Intern

Middleton, WI

June 2023 - August 2023

- Delivered ReactJS dashboard with advanced interactivity, enabling simplified analysis of complex voting datasets. Integrated OpenAI's GPT- 3.5 API to extract key data points from 3500 PDFs using batch processing, reducing manual processing by 90%.
- Engineered Python-based ETL processes leveraging serverless 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.
- Boosted back-end system test coverage by 15% through comprehensive unit testing and created 3 Node.js API endpoints collaborating cross-functionally, leveraging CI/CD pipeline for faster deployment and development.

Info Edge India Ltd (Naukri.com)

Senior Software Engineer

Noida, India

August 2020 - July 2022

- Led migration of application frontends from jQuery to React with REST API integration reducing page reload time by 40% while ensuring strict adherence to SDLC methodologies, resulting in a 30% improvement in development efficiency.
- Revamped web and mobile app user interfaces using ReactJS and TypeScript yielding in a 16% enhancement in performance, evaluated by PageSpeed Insights. Achieved 95% code coverage with Jest and Enzyme, reducing production bugs by 30%.
- Built and collaborated on reusable user profile, jobs, and application microservices with over 90% code reuse using Java, Spring and 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 Django, empowering customer support team to categorize 5,000 customer feedback messages, leading to 30% improvement in identifying positive sentiment trends.

PROJECTS

Urgent Unity

Hackathon Project

Fairfax, VA

October 2023 - October 2023

- Architected HIPAA-compliant full-stack web application using MERN stack (MongoDB, Express.js, ReactJS, Node.js). Built a dashboard showing real-time CPR-certified professionals provider availability metrics and location within a 5 mile radius.
- Integrated AWS speech translation & Google Maps for navigation and estimated arrival time. Optimized algorithm for provider ranking, achieving an average dispatch time of 2 minutes for 100 simulated cases.

University Feedback Express

Academic Project

Fairfax, VA

January 2023 - May 2023

- Developed user friendly survey applications with AngularJS, powered by scalable SpringBoot microservices and RESTful APIs, improving GMU student experience with a 30% faster 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 : SQL, NoSQL, PostgreSQL, MongoDB, SQL Server, Oracle Server, JDBC, BigQuery, Redis
Web Technologies : Spring Boot, ReactJS, Redux, Node.js, 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