MUKUL JANGID

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EDUCATION

Boston University, Boston, MA — Jan 2025
Master of Science in Computer Science — **GPA: 3.67 / 4.0**

MCT's Rajiv Gandhi Institute of Technology, Mumbai University, Mumbai, India — Aug 2016 – Nov 2020
Bachelor of Engineering in Computer Engineering

TECHNICAL SKILLS

Languages & Frameworks: Python, Java, TypeScript, Go, Shell Scripting, Django, Angular, Spring Boot, React, Node.js, Tailwind.
Cloud, DevOps & Databases: AWS (EKS, S3), GCP, Kubernetes, Docker, CI/CD Pipelines (Jenkins, GitHub Actions), PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch.
Software Development: REST APIs, System and Microservices Architecture, Design Patterns, Object Oriented Programming (OOP), Agile Methodologies, Software Development Lifecycle (SDLC), Celery, Code Optimization, Performance Tuning.
Testing, Debugging & Operating Systems: Unit Testing, API Testing (Postman, Mocha), Debugging Tools, Linux, Unix, Windows.

PROFESSIONAL EXPERIENCE

IpserLab LLC, Boston, MA — May 2025 – Present
Software Engineer Intern
- Leading a frontend React development team, actively developing intuitive web pages, overseeing project progress and deliverables, and mentoring team members through code reviews and technical guidance to meet project milestones.

Klaar Digital Solutions Pvt Ltd, Mumbai, India — Mar 2022 – Jul 2023
Software Development Engineer 1
- Spearheaded development of a SaaS based Surveys module for 10 Fortune 500 companies, generating $200K ARR.
- Monitored AWS and GCP cloud services along with Kubernetes clusters, resolving post-deployment issues to ensure stability and scalability for 100K+ users.
- Revamped Django codebase and refactored 10+ APIs, reducing server load and boosting performance by 30%.
- Mentored junior developers, conducted code reviews, and improved onboarding efficiency, shortening delivery time by 20%.

Man Investments Group, Mumbai, India — Mar 2021 – Jun 2021
Software Developer Intern
- Built and maintained a complete Invoice Discounting web application using Django, translating business needs into technical specifications, and boosting performance efficiency by 20% while enhancing responsive design.

PromoDome Digital LLP, Mumbai, India — Dec 2020 – Feb 2021
Web Development Intern
- Architected and launched a responsive multi page website using WordPress with Elementor, improved engagement by 15%, and optimized page load times by 1.5 seconds to lower bounce rates.

ACADEMIC PROJECTS

Smart Meal Planner, Boston University — Sep – Dec 2024
- Engineered a full-stack meal planning and inventory system using Angular, Node.js (Express), and PostgreSQL to streamline meal organization and reduce food waste via low stock and expiry alerts.
- Implemented JWT based role based authentication with middleware for secure multi role access control.

Route Optimization System, Boston University — Feb – May 2024
- Designed and implemented a routing system in Java across 1M+ nodes, leveraging Dijkstra and Bellman Ford algorithms along with design patterns and multithreading to enhance performance and resource efficiency.
- Built a test suite with JUnit (95% coverage) and Python visualizations to simulate real-time routing diagnostics.

Performance Benchmarking of Large Language Models, Boston University — Sep – Dec 2023
- Orchestrated benchmarking of LLMs, including Falcon, Llama2, Vicuna, and Mistral (7B–40B parameters), across 50+ sessions, optimizing model selection based on performance metrics.
- Designed an intuitive GUI for real time performance assessment, improving model efficiency and showcasing resource usage.

RESEARCH & PUBLICATIONS

Heart Disorder Prognosis Employing KNN, ANN, ID3, and SVM, Springer — Publication Link
- Developed a Machine Learning based heart disorder detection system, validated on the Cleveland and Hungary datasets. Published findings at the Advanced Machine Learning Technologies and Applications (AMLTA) 2020.

Ensemble Method Combination: Bagging and Boosting, Springer — Publication Link
- Applied Bagging and Boosting techniques to reduce variance and bias in models, tested on 22 UCI datasets. Research published at International Conference on Advanced Computing Technologies and Applications (ICACTA) 2020.