Varun Medida

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EDUCATION

Georgia State University Atlanta, GA
Master of Science in Computer Science; GPA: 3.90 *Jan. 2023 – Dec. 2024*

Anurag University Hyderabad, India
Bachelor of Technology in Information Technology; GPA: 3.66 (9.17/10.0) *Aug. 2015 – Jul. 2019*

EXPERIENCE

Capital One Richmond, VA
Software Engineer *Jan. 2025 – Present*

- **Performance Testing**: Migrated container-level performance tests from JMeter to k6 and integrated with Grafana. Enabled real-time monitoring and alerting to catch regressions early.
- **Troubleshooting**: Investigated and debugged performance bottlenecks across 40+ containers. Raised issues to respective teams and validated fixes with load tests.
- **Containerization**: Mapped functional containers within Empath and drove issue resolution across teams. Documented ownership and ensured coverage parity.
- **Issue Resolution**: Participated in architecture reviews and sprint planning. Communicated outdated and misconfigured containers to developers for cleanup.

Storee Construction Springfield, MO
Software Engineer Intern *Oct. 2024 – Dec. 2024*

- **Azure DevOps**: Engineered robust test automation pipelines using Playwright within Azure DevOps, cutting QA cycle time by 20% through parallelized execution.
- **AI Testing**: Championed the integration of AI-based testing tools, collaborating with TestRigor to enable codeless test case design for non-technical users.
- **Functional Testing**: Scripted comprehensive end-to-end tests for critical business workflows, enhancing regression stability and expanding coverage across edge cases.

Evidence-Based Cybersecurity Research Group Atlanta, GA
Software Engineer *Jan. 2023 – Mar. 2024*

- **Python**: Automated large-scale legal data collection and transformation processes using Pandas and custom ETL scripts, achieving a 70% reduction in processing time and enabling near real-time analytics.
- **Data Visualization**: Created interactive and publication-ready visualizations to identify trends and anomalies in legal research data, improving decision-making efficiency by 30%.
- **Microservices**: Engineered distributed microservices to modularize data access layers, resulting in a 25% boost in performance and seamless parallel development across Agile teams.

EPAM Systems Hyderabad, TS
Software Engineer *Jan. 2020 – Dec. 2022*

- **Spring Boot, JWT, REST APIs**: Developed secure and scalable RESTful APIs using Spring Boot and JWT authentication to support enterprise-level client systems like CARMA.
- **AWS, Terraform**: Streamlined infrastructure setup for microservices using Terraform, managing AWS services such as EC2, S3, Lambda, RDS, and CloudWatch, improving system reliability and reducing manual errors.
- **Apache Kafka**: Designed Kafka-based pipelines to handle real-time data streams, increasing system responsiveness and enabling low-latency event-driven architecture.
- **Angular**: Developed responsive web interfaces using Angular, improving accessibility and user satisfaction by 20% through better UX/UI standards.
- **Data Structures, Algorithms**: Leveraged advanced data structures (e.g., hash maps, trees, graphs) to optimize API logic and backend processing, improving system throughput and reducing time complexity in key workflows.

Tata Consultancy Services Atlanta, GA
Systems Engineer *Jan. 2019 – Dec. 2019*

- **Spring Boot, MVC**: Assembled scalable backend components using Spring Boot with MVC, laying the foundation for maintainable enterprise solutions.

- **PostgreSQL**: Modeled and indexed PostgreSQL schemas to enhance transactional efficiency and ensure data consistency under heavy workloads.
  - **Agile, GitHub**: Facilitated Agile delivery via daily stand-ups and sprint reviews, while maintaining clean version control through GitHub collaboration workflows.

- **Spyry Technologies**   Bangalore, KA
  Security Intern   *Mar. 2018 – May. 2018*
  - **Penetration Testing, Kali Linux**: Conducted penetration testing using tools like Kali Linux and Burp Suite, identifying critical security vulnerabilities and presenting actionable remediation strategies.
  - **Secure Design Patterns**: Implemented secure coding practices during assessments, strengthening the system's overall security and ensuring compliance with industry standards.

PROJECTS

- **Disaster Data Management System**: Built a full-stack application with a React frontend, Spring Boot backend, and Playwright-based Python automation. Used PostgreSQL and PostGIS to manage and visualize disaster data with Leaflet maps. Integrated async processing for performance and scalability.
- **eCommerce Website**: Created a shopping platform with Spring Boot backend and Angular frontend. Integrated cart features and checkout flow. Automated end-to-end testing with Selenium and Playwright, reaching 95% test coverage.
- **Travel Amigo**: Developed a mobile app in React Native for planning trips. Added user authentication, trip management, and weather forecasting. Achieved a 4.5-star rating and improved retention by 20%.

SKILLS

- **Languages**: Java, Python, SQL, JavaScript, TypeScript
- **Frameworks**: Spring Boot, Hibernate, Django, Angular, React, Node.js
- **Testing Tools**: Selenium, Playwright, JUnit, Postman, TestRigor, JMeter, Mockito, Grafana k6
- **DevOps**: Git, GitHub, Jenkins, Terraform, Docker, Kubernetes
- **Cloud**: AWS (EC2, S3, Lambda, CloudWatch, RDS, Glue), Azure, GCP
- **Other**: Kafka, Leaflet, API Gateway, Data Structures, Dagger, Visual Studio Code, IntelliJ