Sai Sruthi Kovur

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EDUCATION

UNIVERSITY OF CALIFORNIA, RIVERSIDE — Dec 2023
Master of Science in Computer Science — *Riverside, California*
- **Relevant Coursework:** Advanced Operating Systems, Advanced Computer Architecture, Artificial Intelligence, Data Mining Techniques, Information Retrieval and Web Search, Big Data Management, Database Management Systems.

SRM UNIVERSITY, AP — May 2021
Bachelor of Technology in Computer Science — *Andhra Pradesh, India*
- **Relevant Coursework:** Data Structures and Algorithms, Object Oriented Programming, Computer Networks, Algorithm Analysis and Design, Cloud Foundation (Google Cloud Platform), Probability and Statistics for Engineers, Theory of Computation.

EXPERIENCE

Arizona State University — Mar 2024 – Present
Software Engineer — *Tempe, Arizona*
- Develop and integrate REST APIs and over 15 MVC applications using C# and ASP.NET, enhancing web solutions.
- Enhance user interfaces across multiple web applications using CSS, JavaScript/TypeScript, and React, significantly improving responsiveness and user satisfaction.
- Manage SQL database architecture, executing complex SQL queries that have reduced data retrieval times by 30%.
- Identify and address performance bottlenecks in existing SSIS and SSRS solutions, resulting in a 20% increase in efficiency.
- Configure ServiceNow instances, developing custom applications and automating workflows to enhance efficiency.
- Implement version control strategies using Git and GitHub, enhancing collaboration through 50+ pull requests and streamlined code reviews by deploying code using Jars and Scripts on Microsoft Azure cloud providers.
- Utilize JIRA, Grafana, and Confluence to manage projects, create system monitoring alerts; and improve project tracking and documentation quality, enhancing team collaboration and workflow efficiency.

University of California Riverside — Jan 2023 – Mar 2023
Academic Student Employee (Full Stack Web Developer) — *Riverside, California*
- Improved the Drupal website, leading to a 40% visitor increase, by enhancing SDLC and test automation processes.
- Implemented an automation framework with test suites, utilizing bash commands to fix latency issues, significantly enhancing system functionality verification.
- Engaged in Full Stack Development with a multi-disciplinary team, integrating Python, PHP, MySQL, REST, Docker, React.js, Vue.js, and HTML+CSS (Tailwind), adding 4 core features to the portal.

EPIKInDiFi Software Solutions Pvt Ltd — Mar 2021 – Dec 2021
Software Engineer (Full Stack) — *Chennai, India*
- Developed high-performance RESTful web services using Django for Python, employing TDD methodologies with PyTest and TCL scripting for automation, resulting in a 35% reduction in bug rates post-deployment.
- Enhanced API development using NodeJS and JSON, integrating Jest for unit testing and MongoDB for database solutions, increasing system reliability by 20%.
- Utilized interactive API documentation tools and Postman for comprehensive testing, improving debugging efficiency.
- Deployed HTML5, CSS3, and JavaScript for DOM manipulation and seamless UI, keeping up with the design trends.
- Managed Jenkins and Docker within CI/CD pipelines for integration and deployment, optimized with Azure to significantly enhance deployment efficiency and streamline operations.
- Configured applications on Jetty and Tomcat servers, using XML for data encapsulation and incorporating Terraform for efficient infrastructure management.
- Integrated DevOps practices, including containerization with Docker and Jenkins, that improved development cycles by 40%.
- Collaborated with a team of 15+, building code for complex business targets, and providing oversight to quality assurance analysts and engineers on test automation and performance activities.
- Employed Git for version control and collaborated using JIRA for sprint management, enhancing teamwork and code quality.

PROJECTS

Hotel Booking Revenue Analysis | *Python, Hadoop, MapReduce*
- Harmonized 2 distinct hotel booking datasets of 1.5 million records into the Hadoop Distributed File System for processing.
- Executed 6 MapReduce jobs in Python to calculate and rank monthly revenues, obliging differing dataset schemas.
- Delivered 3 key insights on seasonality in hotel bookings, assisting in data-driven strategy for the hospitality industry.

Twitter Search Engine | *Python, PyLucene, BERT, Angular, React*
- Utilized tweepy Twitter API V2 to compile a dataset of 100K+ tweets over 6 month period centered around giveaways.
- Implemented PyLucene and BERT to ensure optimal efficiency in tweet inspection by indexing 5000 tweets per hour.
- Developed a UX web application with ASP.NET Core MVC, and React to serve 10,000+ monthly users, utilizing Mapbox, a COTS mapping platform, to showcase tweet locations on the interactive map using geolocation data from over 5,000 unique coordinates.

TECHNICAL SKILLS

Programming: Python, C#, Node.js, C++, C, JAVA, JavaScript, TypeScript, Rust, Kotlin, Bash, Ruby
Technologies: React.js, Angular, Vue.js, Django, Flask, RESTfulAPIs, Spring Boot, Express.js, TensorFlow, PyTorch, jQuery, Bootstrap, Laravel, Flask, ASP.NET, Node.js, Visual Studio, Electron, Android SDK, iOS SDK, Jenkins, GitLab, GitHub
Databases & Cloud: MongoDB, PostgreSQL, MySQL, Oracle, NoSQL, Azure, GCP, Kubernetes, Docker, Containers, Microservices
Tools/Concepts: Grafana, Elasticsearch, JWT, LDAP, TLS Encryption, Terraform, Mapbox, Distributed Systems, Debugging, Performance Tuning, Security and Encryption, Agile Methodology, Linux, Web Scraping