

Sai Sruthi Kovur



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EDUCATION

UNIVERSITY OF CALIFORNIA, RIVERSIDE

Dec 2023

Master of Science in Computer Science (GPA: 3.61 / 4.00)

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 Science in Computer Science (GPA: 3.80 / 4.00)

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, RESTful APIs, 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