Sriram Boddeda

Norman, Oklahoma

Email: sriram.boddeda@outlook.com — Phone: +1 628-276-7450

LinkedIn: linkedin.com/in/sriram-boddeda — GitHub: github.com/sriram-boddeda — Portfolio: sriram-boddeda.github.io

EDUCATION

University of Oklahoma **Jan 2023 – Dec 2024**
Master of Science in Computer Science, GPA: 3.78 *Norman, Oklahoma*
Courses: *Analysis of Algorithms, Database Management, Formal Languages, Computer Architecture, Blockchains and Cryptocurrencies, Machine Learning.*

PROFESSIONAL EXPERIENCE

University of Oklahoma **Feb 2025 – Present**
Software Developer *Norman, Oklahoma*

- Developed AtlasCollect, an application for research labs and bioinformatics teams to centralize RNA datasets with support for multi-tenant Role-Based Access Control for secure cross-group collaboration.
- Created 50+ RESTful APIs for dataset uploads, conversions, and merging multi-source data into unified collections.
- Built event-driven job queues and asynchronous workflows for scalable background processing, enabling real-time alerts and efficient task management.
- Containerized services for independent development and faster deployment of services. Introduced a Redis caching layer for hot dataset metadata/query results, reducing query latency by 45% and supporting 1,800 requests/sec under load.
- Supported 200 active researchers across multiple labs with infrastructure that can scale seamlessly to over 500 concurrent users, ensuring robust performance as adoption grows.

University of Oklahoma **Oct 2023 – Dec 2024**
Research Assistant *Norman, Oklahoma*

- Developed and deployed the lab's central website, serving as a hub for research highlights, publications, news, and open opportunities to increase outreach and visibility.
- Enhanced user experience with semantic search and dynamic navigation, enabling rapid and accurate discovery of lab members, events, and publications.
- Optimized media management with a scalable CDN solution, ensuring efficient delivery and seamless access to images and videos for all users.
- Automated bulk conference invitations, streamlining outreach workflows and significantly reducing manual effort.

Persistent Systems **Dec 2020 – Nov 2022**
Software Engineer *Pune, India*

- Led development of a robust migration application to systematically transfer ECM databases and physical files from Agilent, implementing export, import, and logging services for safe, automated data migration and validation.
- Engineered a NATS-driven .NET Core microservice to integrate with legacy .NET Framework APIs for on-demand test data creation and automated migration validation, enabling end-to-end unit testing and saving 30+ hours of manual setup.
- Streamlined ETL/ELT pipelines for migration, automating workflows to boost performance, scalability, and reliability.
- Reduced storage/memory utilization by optimizing export/import ETL services, enabling smooth migration of large-scale datasets.
- Created a PowerShell tool to catch migration issues, cut manual ETL testing by 60%, and improve QA turnaround.
- Developed and maintained the Statusboard app for Agilent, building GraphQL and REST APIs with LDAP authentication and automated health monitoring, resulting in 70% fewer manual server checks and saving 10+ hours per week.

ACADEMIC PROJECTS

DApp Marketplace on Ethereum Testnet — *Ethereum, Solidity, Node.js, ethers, Truffle* — GitHub
- Initiated and led the development of a decentralized marketplace to address the need for secure, peer-to-peer trading; designed and deployed smart contracts on Ethereum Testnet to enable trustless transactions and guarantee on-chain security.
- Streamlined user experience by integrating instant wallet authentication and secure Ether payments, resulting in simplified onboarding and faster transactions for marketplace users.

Job Shop Application — *Java, JSP, MS SQL, Stored Procedures* — GitHub
- Designed and built a service booking app serving 100+ users to streamline and accelerate the scheduling process.
- Designed schema and 10+ stored procedures; built CLI + JSP UI to manage 1,000+ records efficiently.

TECHNICAL SKILLS

Python, JavaScript, TypeScript, C#, Java, HTML/CSS, React, Next.js, Node.js, Django, Tailwind CSS, .NET Core, .NET Framework, Selenium, Playwright, Git, Jira, AWS, Google Cloud Run, Docker, Kubernetes, PostgreSQL, MySQL, SQL Server, MongoDB, Redis, Firebase, Kafka, RabbitMQ, NATS Messaging, CI/CD, REST APIs, GraphQL, WebSockets, OAuth, Agile, Data Structures, TensorFlow, Machine Learning, Deep Learning, NLP, LLMs, Fine-tuning, Model Deployment