# Sriram Boddeda

Norman, Oklahoma

Email: sriram.b29@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*

- Built and deployed **AtlasCollect** (Next.js, TypeScript) for campus research labs and bioinformatics teams to centralize single-cell RNA-seq datasets; multi-tenant RBAC enables curator/reviewer roles and secure cross-group collaboration.
- Created 50+ RESTful APIs for dataset uploads, conversions, and merging multi-source data into unified collections.
- Integrated asynchronous workflows by orchestrating R scripts via Node.js, enabling **real-time progress streaming** and reducing manual processing time from hours to minutes.
- Containerized services with **Docker and Docker Compose** and 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*

- Built a responsive lab website with Next.js and Strapi CMS, integrated with PostgreSQL, to showcase research highlights, achievements, announcements, publications, news, and open positions—serving as a central hub for outreach and visibility.
- Enhanced researcher and visitor experience by implementing advanced search and dynamic routing, enabling fast discovery of publications, lab members, and event details.
- Integrated Cloudinary CDN with Strapi for scalable media storage and seamless delivery of images and videos to the frontend.
- Automated large-scale conference invitations with Selenium, streamlining outreach and reducing manual effort.

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

- Built a NATS-driven .NET Core service integrating with legacy .NET Framework APIs for test data creation and migration validation; enabled end-to-end unit testing and eliminated 30+ hours of manual setup.
- Spearheaded enhancements to the data migration application, driving automation, performance gains, and reliable version handling.
- Optimized storage and data loading in export/import services, reducing memory use as data volume grew.
- Recognized recurring migration issues and scripted a PowerShell tool to catch inconsistencies, cutting manual testing by 60% and boosting QA efficiency.
- Collaborated on building GraphQL and REST APIs for an internal dashboard app with LDAP authentication, and automated health monitoring across distributed servers, cutting manual checks by 70% and saving 10+ hours weekly.
- Contributed to 28 Agile sprints by prioritizing and refining 50+ user stories, enabling timely delivery of key features and driving a 15% boost in user satisfaction.

## ACADEMIC PROJECTS

**DApp Marketplace on Ethereum Testnet** — *Ethereum, Solidity, React.js, Node.js, ethers, Truffle* — GitHub
- Designed and implemented a Web3 marketplace where users list/buy/sell items using Ethereum, enabling secure peer-to-peer transactions via smart contracts.
- Built a responsive UI with React.js & Tailwind CSS for a consistent multi-device experience.
- Integrated MetaMask for authentication and Ether payments, streamlining checkout on-chain.

**Job Shop Application** — *Java, JSP, MS SQL, Stored Procedures* — GitHub
- Developed a service booking app for 100+ users; reduced booking time by 30%.
- Designed schema and 10+ stored procedures; built CLI + JSP UI to manage 1,000+ records efficiently.

## TECHNICAL SKILLS

**Languages:** Python, C#, Java, TypeScript, HTML/CSS
**Frameworks/Tools: .NET Core**, .NET Framework, **React**, Next.js, **Node.js**, **Docker**, NATS Messaging, GraphQL, REST APIs, Selenium, Git, Jira
**Databases/Cloud: PostgreSQL**, SQL Server, **MongoDB**, **Redis**, Firebase, **Google Cloud Run**, CI/CD pipelines