# Sriram Boddeda

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#### TECHNICAL SKILLS

Programming: Python, C#, Java, JavaScript, Typescript, R, Solidity, Data Structures, Algorithms

Development: React, Next.js, Node.js, Express.js, ASP.NET, NET, MVC, REST, GraphQL, HTML, CSS, Tailwind CSS

Testing & Automation: Playwright, Selenium, MS Test, Puppeteer

Databases: MySQL, SQL Server, Oracle, MongoDB, SQLite, Firebase, PostgreSQL DevOps & Deployment Tools: Jira, Docker, Jenkins, Google Cloud Run, Git, Kubernetes

### **EXPERIENCE**

University of Oklahoma

Norman, OK

Software Developer

Feb 2024 - Present

- · Created AtlasCollect with Next.js and TypeScript, implementing role-based authentication and access management for single-cell RNA-seq dataset collections.
- Developed and maintained 50+ RESTful APIs to power dataset upload, conversion pipelines, and merging of multiple datasets into unified collections.
- Integrated asynchronous data processing by triggering R scripts via Node.js's child\_process, streaming progress, and handling results
- Managed data persistence with Prisma ORM (SQLite/PostgreSQL) and containerized the application with Docker and Docker Compose for seamless CI/CD deployments.

## Computer Science | University of Oklahoma

Norman, OK

Graduate Research Assistant

Oct 2023 - Dec 2024

- Designed and built a responsive website with Next is and Strapi CMS, integrating PostgreSQL for efficient research lab data management.
- Improved user experience by implementing search and dynamic routing functionalities for researcher and blog pages.
- Programmed a data pipeline in Linux to convert raw cell sample data into multiple dataset formats using specialized R libraries for processing single-cell RNA sequencing data.
- Automated lab tasks with Python and Selenium, reducing manual workload by 50% and improving efficiency.

Persistent Systems

Pune, India

Software Engineer

- Dec 2020 Nov 2022
- Reduced the manual testing time by 80% by scripting a PowerShell to generate reports for inconsistencies and redundancies detected during data migrations.
- Developed GraphQL and REST APIs for an internal dashboard app with LDAP authentication. Managed distributed servers, automating health monitoring and reducing manual checks by 70%, saving 10+ hours weekly in server maintenance.
- Optimized the data storage and loading architecture in export and import services, reducing runtime memory consumption exponentially as the data size increases and improving system performance.
- Resolved data discrepancies in multiple migrations by creating an algorithm that reduced migration errors and ensured accurate updates. Maintained data integrity effectively while optimizing the migration process.
- Created a .NET web app using NATS messaging to integrate with legacy .NET Framework APIs, enabling MS Tests in .NET Core without direct dependency on the outdated client library.

## **EDUCATION**

University of Oklahoma

Norman, OK

Master of Science, Computer Science

Jan 2023 - Dec 2024

• GPA: 3.78/4.0

# Jawaharlal Nehru Technological University Kakinada

Kakinada, India

Bachelor of Technology, Computer Science and Engineering

• GPA: 3.10/4.0

July 2016 - Sep 2020

#### **PROJECTS**

NoteCraft Sep 2024 - Oct 2024

- Developed NoteCraft, a comprehensive and responsive note-taking platform that supports both markdown and plain text notes.
- · It features an intuitive user interface designed for seamless navigation and efficient note creation, editing, and management.

# Decentralized Ethereum Marketplace | Blockchains & Cryptocurrencies

Sep 2024 - Apr 2024

- Implemented a decentralized marketplace using Next.js and Solidity, enabling secure transactions with Ethereum Sepolia coins.
- Integrated MetaMask wallet functionality for a seamless user experience, conducting extensive testing on Ethereum test networks to ensure smart contract security.

#### Job Shop Application | DBMS

Sep 2023 - Dec 2023

Modeled and programmed a robust database using MS SQL, then coded a comprehensive database-driven application with a JSP web interface for managing and booking services, including a Java command-line tool for efficient data operations.