

SREEJA ATLURI

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EDUCATION

Arizona State University, Tempe, Arizona

Aug 2022 – May 2024

Master of Computer Science

GPA: 4.0 / 4.0

Course Work: Imperative Programming (DSA), Operating Systems, Object Oriented Programming, Database Management Systems, Machine Learning, Distributed Database Systems, Cloud Computing, Data mining, Data Visualization

Sagi Ramakrishnam Raju Engineering College, India

Jun 2017 - Jul 2021

Bachelor of Technology in Information Technology

GPA: 9.01 / 10

SKILLS

Programming Languages & Databases: Python, C/C++, Java, C#, JavaScript, TypeScript, PHP, SQL, PostgreSQL, MongoDB, MySQL

Web Development Frameworks: HTML, CSS, Bootstrap, Angular, React.js, Node.js, REST API's, Redux, ECMAScript, GraphQL

Programming Paradigms: OOP Principles, Operating Systems, Unix, System Memory Management, Concurrency, Multithreading

Container/Other Technologies: Docker, Kubernetes, Jenkins, Terraform, CI/CD, Shell Scripting, Microservices, RabbitMQ, PyTest

Developer Tools: Git, AWS, Azure, Postman, Agile, Software Development Life Cycle, Model-View-Controller, VS Code, TDD

PROFESSIONAL EXPERIENCE

Graduate Service Assistant: Arizona State University

Tempe, Arizona | Aug 2022 - Present

- Managed the design of the CSE 310 course, **Data Structures & Algorithms** using **C++**, entailing assignment review, student guidance, assignment evaluation, and assistance with solving assignments and DSA challenges.
- Optimized communication channels between faculty and students to maximize faculty productivity through the composition of weekly emails. Additionally, conducted regular office hours to facilitate doubt clearing sessions.

Software Engineer: Tata Consultancy Services:

Hyderabad, India | Aug 2021 - Aug 2022

- Developed **REST APIs** with **JavaScript**, **Node.js**, and **Express.js**, unifying API structures with **TypeScript** interfaces.
- Devised a user-centric design employing **ReactJS**, **HTML5**, **Bootstrap** and **CSS**. Achieved 95%+ test coverage through unit testing using **Mocha**, **Chai** and **ESLint** for tracking code quality.
- Designed an optimal **PostgreSQL** database schema using Sequelize **Object-Relational Mapping (ORM)** for data interactions and Leveraged **JSON Web Tokens (JWTs)** to bolster authentication and authorization.
- Employed an enterprise-scale **Model-View-Controller (MVC)** architecture for code organization and maintainability, resulting in a 33% improvement in code organization.
- Built a service in **Node.js** that communicates (write & listen) with **RabbitMQ**. Worked in **Linux** environments, implementing **Docker** for containerization.
- Integrated **Git** for version control, ensuring seamless collaboration in projects. Engaged in 100% **agile** project management methodologies to support all aspects of **Software Development Life Cycle (SDLC)**.
- Collaborated cross-functionally to align deployment strategies with business requirements, fostering a culture of collaboration and continuous improvement.

PROJECTS

Telegram Bot: [Node.js](#) | [AWS](#) | [JavaScript](#)

Personal Project

- Engineered a Telegram bot to deliver real-time notifications for course availability on the university website using Node.js and JavaScript, hosted on AWS EC2.
- Utilized SuperAgent for scraping data. Established robust error-handling mechanisms server crash notifications.
- Enhanced user engagement by incorporating custom defined Telegram commands, enabling instant course availability checks which resulted in a notable 90% reduction in the time students spent manually visiting the website.

Task Management System: [Angular](#) | [Docker](#) | [Kubernetes](#) | [Express.js](#) | [AWS](#) | [CI/CD](#) | [JWT's](#)

Capstone Project

- Created a user-friendly interface using Angular. Successfully deployed the application in AWS S3 for static web hosting.
- Orchestrated a seamless transition to containerized architecture, cutting deployment times by 30% using Docker.
- Implemented Kubernetes (AWS EKS) to manage pods, replicas, and services, utilizing YAML files for configuration and scalability.
- Executed precise rolling updates and rollback strategies, ensuring 100% availability and a seamless deployment process.
- Automated deployment workflows through Jenkins in a robust CI/CD pipeline, resulting in a 50% optimization of the entire build, test, and deployment processes.

CRUD Master: [C#](#) | [ASP.NET](#) | [HTML5](#) | [CSS](#) | [Bootstrap](#) | [Postman](#) | [MySQL](#)

Capstone Project

- Developed a Full Stack Web Application with CRUD operations using C#, ASP .NET, HTML5, CSS, and Bootstrap.
- Executed API testing with Postman, ensuring the validation of endpoint functionality, reliability, and performance.

PUBLICATIONS

Research Paper: International journal of advanced research in science and technology

Mar 2022

Co-authored and published a Research Paper on the academic project titled" [ISSN: 2457-00362] **Emotion detection through facial feature recognition**" (<https://www.ijarst.in/public/uploads/paper/687661649088663.pdf>).