

SAI SATHWIK REDDY VARIKOTI

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EDUCATION

Master of Science in Computer Science, (Indiana University Bloomington, USA) - GPA (3.7/4.0)

Aug 2023 - May 2025 (Present)

Bachelor of Engineering in Electronics and Communication Engineering, (Anna University, India) - CGPA (8.5/10).

Aug 2017 - May 2021

WORK EXPERIENCE

Likewize, Chennai, India

Software Development Engineer (SDE)

Jul 2022 - Jul 2023

- Coordinated with cross-functional teams to develop and deploy four E-commerce websites using **Nuxt.js**, **VueJS**, **StorefrontUI**, and **Express.js**, resulting in a 30% increase in customer acquisition.
- Collaborated to a team-driven **Agile** product delivery process, which resulted in a 25% improvement in time-to-market and a 30% increase in release cycle efficiency.
- Engineered a **GraphQL** API layer atop the CommerceTools API, streamlining data access and manipulation processes, resulting in a 25% increase in query response speed.
- Implemented multi-factor authentication (MFA) with Okta and AWS Cognito, enhancing account security for 10,000+ users.

Jr. Software Developer

Jul 2021 - Jul 2022

- Resolved production issues within 1-2 days, leveraging AWS CloudWatch, securing over 95% system uptime and optimal performance, protecting revenue, and reducing downtime.
- Leveraged **Lighthouse** to conduct performance analysis to validate the implementation of asynchronous JavaScript in Nuxt.js, achieving a 30% reduction in page load times.
- Integrated content management using **ContentStack** CMS (Content Management System) for static pages, resulting in decrease in code change requests by 40%.
- Engineered a **RESTful API gateway** using **NodeJS** to facilitate secure and efficient communication among **microservices** and the frontend, enhancing service throughput by 20%.

Software Engineer Intern

Jan 2021 - Jun 2021

- Enhanced web application UI by implementing **responsive web design** principles, resulting in a 20% increase in user engagement.
- Pioneered the development of a comprehensive test automation suite using **Jest** for a high-traffic web application, leading to a 50% reduction in defects found during QA testing phases.
- Designed a **Tableau** dashboard for immediate code performance and change request tracking, resulting in a 15% drop in change requests and enhanced code quality.

TECHNICAL SKILLS

- Programming Languages** : Java, Python, JavaScript, TypeScript, C/C++.
- Database Stack** : MySQL, PostgreSQL, NoSQL (MongoDB).
- Web Technologies** : ReactJs, VueJs, NodeJS, Angular, ExpressJs, Spring, RESTful API, HTML5, CSS3, GraphQL, Jest.
- DevOps** : Git, Docker, CI/CD, Kubernetes, Jenkins, Azure DevOps.
- Tools** : Postman, Jira, ContentStack CMS, Linux, Lighthouse, Machine Learning, Tableau.
- Cloud Technologies** : AWS (IAM, RDS, DynamoDB, EC2, S3, Lambda, CloudWatch, CloudFront, Cognito).

PROJECTS

Home Credit Default Risk Analysis [Python, Sklearn, MLP, Feature Selection, Hyperparameter tuning, TensorFlow]

Nov 2023 - Dec 2023

- Designed and optimized an advanced Multi-Layer Perceptron (MLP) using **back-propagation** and **gradient descent** achieving a crucial 68.26% test accuracy, contributing to the refinement of Home Credit's lending strategy.
- Employed feature selection techniques like grid search and cross-validation for **hyperparameter tuning**, enhancing the **Deep Learning** model to achieve a test F1 score (0.7311) and a public score (0.7537).
- Executed a varied ensemble strategy with Random Forest, CatBoost, and XGBoost via stacking. Integrated a deep learning algorithm, boosting predictive accuracy by 10%.

Pichu-Pikachu Checkers game bot [Python, Minimax Algorithm, Artificial Intelligence]

Oct 2023 - Nov 2023

- Managed game state and player interactions in a memory-efficient structure, balancing computational efficiency with response time to ensure smooth gameplay on large 8x8 grids.
- Achieved a significant reduction in decision-making time (up to 30% improvement) while maintaining competitive gameplay, as measured against standard AI benchmarks.

Virtual Assistant for Healthcare Services [HTML, CSS, JavaScript, Java, MySQL]

May 2023 - Jun 2023

- Led the adoption of telemedicine technology, facilitating remote consultations and expanding patient reach by 30%.
- Orchestrated the creation of a seamless user interface, fostering efficient communication between front-end and back-end systems, resulting in a 40% reduction of redundant medical records.

ACHIEVEMENTS

- Received Q3 2022 Individual Value Award for exceptional contributions in Buy-Back Trade-in Projects, showcasing dedication, initiative, and outstanding performance.
- Ranked among the top 10 candidates for the Rising Star Award in 2022, showcasing exceptional talent, achievements, and potential as a Software Developer in the Organization.