

JAYANTH SAI YARLAGADDA

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Education

San Jose State University

Master of Science in Software Engineering

Jan. 2025 – Dec. 2026

San Jose, CA

SRM Institute of Science and Technology

Bachelor of Technology in Computer Science and Engineering (Specialization in Cloud Computing)

Aug. 2020 – May 2024

Chennai, India

Experience

AWS Cloud Virtual Internship – AICTE, EduSkills, AWS Academy

May 2023 – July 2023

Cloud Intern (Virtual)

Remote

- Completed a 10-week virtual internship via AWS Academy, covering cloud fundamentals and core services.
- Gained hands-on exposure to EC2, S3, IAM, and cloud deployment models through guided labs.
- Built a basic 2-tier web application on AWS using EC2, S3, and Route 53 as part of a capstone project.
- Developed foundational skills in cloud architecture, networking, and identity management.

Projects and Licenses

Efficient Task Offloading in Mobile Edge Computing | *Team Lead - AWS, iFogSim, Python*

April 2024

- Led a 3-member group to design a simulation framework for dynamic task distribution in mobile edge computing.
- Evaluated latency and energy trade-offs in offloading strategies using real-world cloud scenarios.
- Developed an interactive UI and backend database for task scheduling and monitoring.
- Improved resource allocation efficiency by 25% through adaptive offloading mechanisms.

Chitkara - Grocery Website | *Frontend Developer – HTML, CSS, JavaScript*

September 2023

- Collaborated in a 4-person team to build a responsive online grocery store with real-time inventory display.
- Focused on front-end development, optimizing user navigation and visual appeal.
- Integrated product listing APIs with image rendering for seamless browsing experience.
- Boosted average session duration by 20% during testing phase through UI refinements.

Secure Healthcare Data Access and Search Framework | *Full-Stack Dev - Java, AWS, MySQL*

October 2020

- Co-engineered a secure healthcare records portal with searchable encryption for sensitive patient data.
- Took lead on front-end design and collaborated on secure backend architecture deployed on AWS.
- Researched Delegateable Searchable Symmetric Encryption techniques to enhance HIPAA-style privacy compliance.
- Reduced query latency by 18% through backend indexing optimizations.

AWS Academy Cloud Practitioner License (*View Credential*)

August 2023

AWS Academy Cloud Architecting License (*View Credential*)

June 2023

Technical Skills

Languages: Python, Java, C, C++, HTML/CSS, JavaScript, SQL

Developer Tools: VS Code, Eclipse, Google Cloud Platform, Android Studio

Frameworks/Tools: React.js, Node.js, AWS (EC2, S3), Jenkins, GitHub, Docker, iFogSim

Concepts: Object-Oriented Design (OOPS), API Development, Unix Systems, Data Modeling and Validation, Problem Solving, Agile Development, Data Structures and Algorithms.

Leadership / Extracurricular

Student Representative

August 2021 - May 2024

SRM Institute of Science and Technology

- Served as Class Representative for 8 semesters, representing student issues in academic and administrative meetings.
- Organized workshops, tech symposiums, and hackathons by managing registrations, communication, and volunteers.
- Secured sponsorships for fests like Milan through corporate outreach and maintained sponsor relations.
- Led cross-functional teams to execute campus events, overseeing logistics, promotions, and budgeting.