

Santosh Sai Gowtham Pasala

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Education

San Jose State University

Aug 2022 – May 2024

- Master of Science, Software Engineering

VNR Vignana jyothi Institute of Engineering & Technology

Aug 2017 – Jul 2021

- Bachelor of Science, Computer Science & Engineering

Skills

Languages & Web Technologies: C + +, C, Java, Python, XML, SQL, JavaScript, Shell Script, JSP, Servlets, HTML, CSS, Bootstrap, Typescript, Tailwind CSS, Redux.

Frameworks: Flask, Express.js, Node.js, Next.js, React.js, Angular.js, Spring Boot, Spring MVC, JUnit.

Databases & Cloud Technologies: SQL, MySQL, MongoDB, NoSQL, PostgreSQL, AWS RedShift, DynamoDB, Firebase, Google Cloud (GCP), AWS Cloud, Lambda, Kafka, Docker, Kubernetes, Jenkins, Ansible, ELK(Elasticsearch, Logstash, and Kibana).

Software Tools & technologies: Version Control (Git), Debugging, JIRA, Linux, Maven, Power BI, Tableau, Visual Studio, Spark, REST/SOAP, Android Studio, gRPC, Slack, Swagger/Open API, LDAP, OAuth, IAM, Hashicorp Vault, SSO, Locus, Postman.

Experience

Software Engineer, Bose Software Systems – Remote, USA

Jul 2024 – Present

- Designed and maintained responsive web applications using the MERN stack (**MongoDB, Express.js, React.js, Node.js**), improving overall user engagement by 35%.
- Architected **RESTful** and **GraphQL** APIs for seamless data flow between front-end and back-end, reducing response time by 40% and enhancing application performance.
- Implemented secure authentication and authorization protocols using **JWT**, and **OAuth2**, and utilized Postman for API testing and validation to ensure robust application security.
- Integrated **MongoDB** for scalable database management, optimizing query performance by achieving 99.9% data availability.

Software Analyst, Deloitte – Hyderabad, India

Aug 2021 – Aug 2022

- Developed robust front-end interfaces integrated seamlessly with back-end services using **React.js** and **Node.js**, achieving an average application loading time reduction of 1.5 seconds through strategic code optimization.
- Conducted load and performance testing on the **Node.js** backend, ensuring the application could handle peak traffic periods with zero downtime.
- Led server-side logic development and orchestrated **CI/CD** pipelines with **Jenkins, Docker**, and **Kubernetes**, reducing downtime by 15% and accelerating deployment by 40%.

Software Intern, Deloitte – Hyderabad, India

Jan 2021 – May 2021

- Crafted AWS services (**S3, EC2, Athena, Redshift, VPC**), cutting costs by 10% while ensuring robust cloud infrastructure for various projects.
- Automated resource provisioning with **AWS CloudFormation** and **Terraform**, reducing manual intervention by 50%.
- Secured high availability of **Amazon RDS** and **DynamoDB** databases, achieving 99.9% uptime for critical applications and Enhanced cloud security by 20% using **AWS IAM** and encryption.

Software Engineering Intern, JPMC – Hyderabad, India

Jan 2020 – May 2020

- Generated financial data feeds and developed interactive front-end web applications, improving data integration accuracy by 25% and enhancing user experiences, leading to a 30% boost in engagement.

Projects

Airport Management System

github.com/AMS

- Designed a full-stack Airport Management System using ReactJS, Node.js, and MySQL on AWS RDS, achieving 99.5% uptime with autoscaling features.
- Improved user experiences by optimizing page load times by 40% through responsive design techniques and deployed application on Amazon EC2 with autoscaling and load balancing to handle varying traffic and maintain high availability.

Fitness Club Web Application

github.com/FCWA

- Spearheaded a user-centric fitness app using MEAN stack, enhancing user engagement by 30% and implemented Angular services and controllers to manage functionalities for blogs, activities, and courses.
- Integrated AWS CloudFront for faster content delivery, improving load times by 20%.