

Santhosh Chandrasekaran

Software Engineer | Full Stack Developer

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Summary

Software Engineer with a strong foundation in Full Stack Technologies, including React.js, Python, Java, and Azure DevOPS. Skilled in CI/CD automation, reusable component development, and integrating machine learning models. Focused on developing high-quality, customer-facing web and mobile applications that address real-world problems.

Education

University of California, Irvine - Masters, Computer Science <i>Operating Systems, Artificial Intelligence, Machine Learning, Data Structures, Advanced Algorithms</i>	Sep 2023 - Dec 2024 GPA: 3.77 / 4.0
Sri Venkateswara College of Engineering - Bachelors, Information Technology <i>Computer Architecture, Database Management Systems, Big Data Analytics, Cloud Computing</i>	Aug 2016 - May 2020 GPA: 4.0 / 4.0

Technical Skills

Programming Languages: C, C++, Java, Python, JavaScript, TypeScript
Frontend Development: HTML5, CSS3, React.js, Next.js, Angular.js, Material UI, Shadcn, Bootstrap, Tailwind CSS
Backend Development: Flask, FastAPI, Node.js, PostgreSQL, MySQL, MongoDB, NoSQL
Machine Learning: TensorFlow, Keras, OpenCV, Tesseract, Pandas, GAN, RAG, Matplotlib
Other Technologies: Docker, Azure DevOps, AWS (S3, SageMaker, CodePipeline, CodeBuild, CodeDeploy), Jenkins, Git, Redis

Experience

Mage Data <i>Software Developer Intern - Python, TensorFlow, Keras, Matplotlib, PostgreSQL</i>	June 2024 - Dec 2024 New York, USA
<ul style="list-style-type: none">Built a Synthetic Data Generation Model using GANs, achieving an accuracy of 83% for generating realistic synthetic dataImproved model accuracy by 45% by integrating Label Encoding and Min-Max Scaling for efficient data pre-processingUtilized PostgreSQL to manage data retrieval and store results, enabling structured analysis of synthetic data outputsVisualized demographic distribution using Matplotlib, creating graphs to validate and analyze the distribution against original data	

Aspire Systems <i>Senior Software Engineer - Java, Maven, JavaScript, ReactJS, Redux, Azure, Jenkins, MySQL</i>	Dec 2020 - July 2023 Chennai, India
<ul style="list-style-type: none">Led development of 10+ web and mobile modules, improving usability by 75% for the banking application serving 2M+ usersCoordinated client-facing Agile meetings, driving team progress and delivering high-quality software solutions on scheduleOrchestrated CI/CD pipelines using Jenkins and Azure DevOps, automating and reducing deployment processes by 40%Developed reusable frontend Reactjs and Redux components, cutting development time by 30% across all projectsOptimized backend APIs using Java and Spring Boot, integrating Spring Data JPA and Redis, supporting 1M+ requests daily with 93% uptime	

Temenos (Contracted by Aspire Systems) <i>Software Engineer - Java, SpringBoot, JavaScript, ReactJS, REST API, MySQL, AWS</i>	May 2021 - Sep 2022 Hyderabad, India
<ul style="list-style-type: none">Resolved 100+ bugs across multiple projects, improving application stability and efficiency by 20%Refined backend APIs using Java and Spring Boot, reducing API response times by 20% and resolving critical issues like settings updates and profile data lossFollowed SDLC processes, ensuring timely delivery of features resulting in 95% on-time feature releasesReduced deployment processes by 45% through automated CI/CD pipelines using AWS CodePipeline, AWS CodeBuild, AWS CodeDeploy, ensuring faster and reliable releases across production environments	

Project

VISTA (Sponsored by Amazon Web Service (AWS)) <i>React.js, Python, Amazon (SageMaker, S3), Redis, RabbitMQ, Dramatiq, MUI</i>	Jan 2024 - June 2024
<ul style="list-style-type: none">Developed the UI with React.js, Material UI, and Tailwind CSS, improving user experience and responsivenessBuilt FastAPI backend APIs to connect with Amazon S3, speeding up data retrievalIntegrated OpenCV and Tesseract for text extraction from video frames, improving data accessibility.Engineered a scalable video analysis pipeline using OpenAI Whisper and LLaVA 1.3, enabling real-time transcription on Amazon SageMakerCreated a chatbot using a RAG model, providing accurate, timestamped responses and enhancing user engagement	