SANTHOSH CHANDRASEKARAN

Software Engineer | Full Stack Developer

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Professional Summary

Full-stack Software Engineer with 3+ years of experience building scalable web and mobile applications focused on meeting client and customer needs. Proven ability to optimize backend performance, automate CI/CD, and enhance user experience.

Education

University of California, Irvine   **Sep. 2023 – Dec 2024**
Masters in Computer Science   *GPA 3.77/4.0*

Sri Venkateswara College of Engineering, Chennai   **Aug. 2016 – May 2020**
B.Tech in Information Technology   *GPA 3.9/4.0*

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
Other Technologies: Docker, Azure, AWS (S3, SageMaker, CodePipeline, CodeBuild, CodeDeploy), Jenkins, Git, Redis

Experience

Mage Data   **June 2024 – Dec 2024**
Software Developer Intern | *AngularJS, Python, TensorFlow, Keras, GraphQL, PostgreSQL*   *New York, USA*

- Engineered a reusable **Angular.js** dashboard for **real-time data monitoring**, reducing development time for subsequent projects by **30%** by providing a standardized interface for data visualization and analysis.
- Replaced a previous data storage solution with **PostgreSQL**, resulting in a **65% reduction** in **data processing time** and enabling structured analysis of synthetic data outputs.
- **Containerized** the GAN model using **Docker** and deployed it on **AWS SageMaker** for scalable inference, enabling efficient **synthetic data generation**.

Aspire Systems   **Dec 2020 – July 2023**
Senior Software Engineer | *JavaScript, React.js, Redux, Azure DevOps, Jenkins, MySQL*   *Chennai, India*

- Led the development of **5+** web and mobile modules for banking applications, creating **35+** reusable **React and Redux components**, driving a **25%** increase in usage of key features such as Transfers, Bill Pay and Settings among **2M+** users.
- Automated **CI/CD** pipelines using **Jenkins and Azure DevOps**, reducing **deployment-related errors** by **20%** and accelerating deployments by **40%**, leading to more stable and reliable releases
- Enhanced backend service performance (**Java, Spring Data JPA, Redis**) using caching strategies and database query optimization techniques to handle **1M+** daily requests with an average response time of under **200ms**.

Temenos   **May 2021 – Sep 2022**
Software Engineer | *Java, Springboot, JavaScript, MySQL, AWS*   *Hyderabad, India*

- Streamlined deployments by **45%** implementing automated **CI/CD** pipelines (**AWS CodePipeline, CodeBuild, CodeDeploy**), accelerating releases and ensuring reliable production deployments.
- Optimized **backend API** performance (**Java/Spring Boot**), reducing response times by **20%** and resolving **critical data integrity** issues (**settings updates, profile data loss**) for a seamless user experience.

Projects

VISTA | *React.js, Python, Amazon (SageMaker, S3, EC2, SNS), RabbitMQ, Dramatiq, MUI*   **Jan 2024 - June 2024**

- Developed a responsive and intuitive UI using **React.js, Material UI, and Tailwind CSS**, resulting in a **45%** increase in user engagement
- Engineered high-performance **backend APIs** with **FastAPI**, integrating with **Amazon S3** to reduce average data retrieval latency by **60%**.

ChatPDF | *Next.js, Clerk, OpenAI API, Pinecone, PostgreSQL, Amazon S3*   **Sep 2024 - Dec 2024**

- Developed and deployed a **full-stack** ChatPDF application utilizing **Next.js**, **FastAPI, OpenAI embeddings, and Chroma vector database**, enabling users to interact with PDF documents through natural language.
- Implemented a **Retrieval Augmented Generation** (RAG) architecture powered by **LangChain** and a fine-tuned **LLaMA** large language model (LLM) to provide contextually relevant answers.