SANTHOSH CHANDRASEKARAN

Software Engineer | Full Stack Developer

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Education

University of California, Irvine   **Sep. 2023 – Dec 2024**
Masters in Computer Science   *GPA 3.7/4.0*

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

Technical Skills

Back End Development: Java, Python, Docker, Flask, GraphQL, PHP, PostgreSQL, MySQL, MongoDB, Git
Machine Learning: TensorFlow, Keras, Scikit-Learn, OpenCV, Tessearct, Pandas, NumPy, RAG, GAN, Matplotlib
Front End Development: HTML5, CSS3, JavaScript, TypeScript, NodeJS, ReactJS, NextJS, AngularJS, Material UI
Other Technologies: Microsoft Azure, Amazon S3, EC2, Amazon SageMaker, AWS Codepipeline, AWS CodeBuild, Jenkins

Experience

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

- Created a reusable Dashboard Page and Static Data Masking UI using **Angular.js** for the company's product, improving **30%** product development
- Handled data retrieval from **PostgreSQL** using **Apollo Client** with **GraphQL**, optimizing data fetching and reducing API response times by **37%**
- Generated synthetic data with **Generative Adversarial Network (GAN)** model using **TensorFlow and Keras**, increasing data diversity by **83%** and improving model performance by **67%**
- Developed algorithms for **data optimization** & **parameter tuning**, improving accuracy & system performance by **40%**

Aspire Systems   **Dec 2020 – July 2023**
Senior Software Engineer | JavaScript, ReactJS, Redux, GraphQL, Xcode, Jenkins, Azure, MySQL   *Chennai, India*

- Enhanced banking application functionalities by **75%** through **leading the development** of over **10+** web and mobile modules including **Android** through **Android Studio** and **iOS** through **Xcode**, resulting in increased user satisfaction and engagement.
- Architected a **CI/CD** pipeline with **Azure** and **Jenkins**, resulting in **40%** increase in app releases across the company
- Created **reusable ReactJS and MUI** components, increasing **30%** development efficiency for all projects
- Designed **database models** for complex financial applications using **MySQL**, optimizing query performance
- Optimized **state management** by **30%** with **Redux**, which led to improvement of performance across projects
- Utilized **React-Query** to simplify data fetching, resulting in a smoother user experience & reduced loading times
- Led the development of a banking application, integrating **GraphQL** for efficient data management and server-side querying, enhancing performance across multiple modules
- Achieved a **30%** boost in **code quality** and **reliability** by implementing **unit and regression** testing processes, leading to improved **code reviews** and **development** standards.

Temenos   **May 2021 – Sep 2022**
Software Engineer | Java, JavaScript, API, MySQL, AWS, BitBucket, Git, SourceTree   *Hyderabad, India*

- Resolved **100+** bugs, increasing functionality and user experience by **30%** each, resulting in a more **reliable** application
- Refined the settings page functionality, achieving a **15%** improvement in performance and the overall user experience
- Drove a **25%** surge in user engagement by refining **critical UI functionalities**, ensuring a seamless user experience
- Played a key role in Agile **Sprint Planning and Retrospectives**, leading to **20%** improvement in team productivity
- Built and automated a **CI/CD** pipeline on **AWS** with **CodePipeline** and **CodeBuild**, integrating **BitBucket** as the source, which reduced deployment times by **40%** and enhanced security through dedicated service roles

Projects

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

- Enhanced user experience by implementing the UI using **React.js**, **MUI**, and **Tailwind CSS**.
- Boosted data retrieval speed through developing backend **APIs** with **FastAPI** to connect with Amazon S3
- Integrated **OpenCV** and **Tesseract** for accurate **text extraction** from video frames, enhancing data accessibility
- Achieved scalable and efficient processing by integrating **OpenAI Whisper** and **Lava 1.3** for video analysis and transcript generation, deploying the solution on **Amazon SageMaker**
- Increased user engagement by **65%** by developing a chatbot using a **RAG** model for accurate, timestamped responses
- Optimized scalability by deploying applications on **EC2** and integrating **RabbitMQ** for asynchronous processing
- Accomplished notification delivery by implementing **Amazon SNS**, resulting in improved communication and response