

Gowtham Chandrasekaran

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Address : San Jose, CA, USA

EDUCATION

Masters of Science in Computer Science

San Jose State University, G.P.A: 3.92/4

San Jose, California, United States

Aug 2021 - Dec 2023(Expected)

Bachelor of Engineering in Computer Science and Engineering

Anna University, G.P.A: 8.2/10

Chennai, India

Aug 2015 - April 2019

SKILLS

Programming Languages: Python, Java, C++, C#, SQL, Go

Frameworks: ReactJS, Redux, Next.js, Angular, Django, Tailwind, Express

Technologies: HTML, CSS, JavaScript, REST, NodeJS, AWS, Firebase, GCP, Docker, MongoDB, GIT

Tools and libraries: OpenAI function call, Pandas, Numpy, Matplotlib, Seaborn, Scikit-learn, Google Analytics, Adobe Experience Manager, Adobe Campaign, Adobe Analytics, Marketo

EXPERIENCE

Systems Engineer

Tata Consultancy Services

Chennai, India

May 2019 - May 2021

- Developed a React-based server health monitoring dashboard that visualized CPU usage rate, disk capacity usage, and network throughput, improving metric readability by 98%.
- Programmed AWS Lambda functions and RESTful APIs to access server health metrics from AWS DynamoDB and analyzed them using Amazon Forecast to predict server failures with over 95% accuracy.
- Implemented a 2-factor User authentication page that performs password and OTP verification which improved the security using Angular and NodeJS.
- Collaborated with cross-functional teams, including UX designers, product managers and DevOps engineers, to deliver high-quality projects on time and within budget.
- Worked using test-driven development in a Agile team with 2 week sprints, 75%+ code coverage, unit testing and CI/CD.
- **Technologies used:** Python, SQLServer, React, Angular, NodeJS, Java, MongoDB, Docker, Kubernetes, AWS EC2, AWS Lambda, AWS CloudWatch, AWS DynamoDB, REST, Adobe Analytics, Adobe Campaign, Marketo

Student Assistant, Electrical Engineering Department

San Jose State University

San Jose, California

Jan 2022 - July 2023

- Successfully leveraged Google Analytics to analyze SJSU EE department website traffic, user behavior, contributing to deeper understanding of audience demographics and preferences.
- Utilized custom tracking codes and events to track specific user interactions, enabling data-backed optimization of website content and design.

RESEARCH AND PROJECTS

- **YouTube Clone:** Created a YouTube clone application using Next.js, Firebase, and Google Cloud, encompassing services like user authentication, video upload, Docker containerization, and Cloud Run deployment, all seamlessly integrated with Firebase services for backend functionality.
- **College database custom ChatGPT:** Created a Streamlit chatbot with OpenAI function call and SQL integration, enabling English language interactions and dynamic responses based on the college database.
- **Face Mask Violation Detection:** Developed a scalable and available face mask violation detection web application using Flask, AWS Rekognition, Lambda, SQS, RDS, S3, ECS, and Load Balancer.
- **Driver Distraction Detection:** Created a CNN model to detect driving distractions and designed a driver scoring system for unbiased insurance pricing.