Gowtham Chandrasekaran

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EDUCATION

Masters of Science in Computer Science — San Jose, California, United States
San Jose State University, G.P.A: 3.92/4 — *Aug 2021 - Dec 2023(Expected)*

Bachelor of Engineering in Computer Science and Engineering — Chennai, India
Anna University, G.P.A: 8.2/10 — *Aug 2015 - April 2019*

SKILLS

Programming Languages: Python, Java, C++, C#, SQL, Go
Tools and libraries: Google Analytics, Adobe Experience Manager, Adobe Campaign, Adobe Analytics, Marketo, Pandas, Numpy, Matplotlib, Seaborn, Scikit-learn
Technologies: HTML, CSS, JavaScript, NodeJS, AWS, Docker, REST, GraphQL, MongoDB, Cassandra, GIT
Frameworks: ReactJS, Redux, Angular, Django, Tailwind, Express

EXPERIENCE

Systems Engineer — Chennai, India
Tata Consultancy Services — *May 2019 - May 2021*

- Experience in designing and executing campaign workflows as a campaign analyst for a retail client using Marketo, Adobe Campaign.
- Analysed the demographics of customers by extracting data from Enterprise databases to design targeted advertisements and interpret trends and patterns.
- Developed a React-based server health monitoring dashboard that visualized CPU usage rate, disk capacity usage, and network throughput, improving metric readability.
- 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:** Adobe Analytics, Adobe Campaign, Marketo, Python, SQLServer, React, Angular, NodeJS, Java, MongoDB, Docker, Kubernetes, AWS EC2, AWS Lambda, AWS CloudWatch, AWS DynamoDB, REST

Student Assistant, Electrical Engineering Department — San Jose, California
San Jose State University — *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.
- Ultilized custom tracking codes and events to track specific user interactions, enabling data-backed optimization of website content and design.

RESEARCH AND PROJECTS

- **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.