

# Gowtham Chandrasekaran

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## EDUCATION

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### San Jose State University

*Master's in Computer Science*

U.S.A

*Aug 2021 – Dec 2023*

### Anna University

*Bachelor's in Computer Science and Engineering*

India

*Aug 2015 – Apr 2019*

## PROFESSIONAL EXPERIENCE

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### Tata Consultancy Services

*Software Engineer*

May 2019 – May 2021

India

#### React Web Development for CitiBank North America

- Created a custom API visualization dashboard by building key components like graphs, login and ticket management page
- Enhanced application security by implementing OAuth 2.0 for authentication and authorization
- Expertise in developing secured RESTful APIs to facilitate seamless data exchange and enhance user experiences
- Demonstrated leadership as Scrum Master by proficiently managing Kanban backlogs and conducting Agile retrospectives

**Tech Stack:** React, HTML, Javascript, Node.js, Jest, MongoDB, REST API

#### Angular JS Web Development for H&M

- Developed functional and user-friendly components for custom H&M tags management dashboard
- Developed unit test cases and functional test automation code, ensuring the delivery of high-quality, accessible code

**Tech Stack:** Angular JS, PostgreSQL, REST API, HTML, CSS, Tailwind, Git

#### Digital Marketing Using Adobe Experience Manager (AEM) for Aldi

- Streamlined product catalog management, shopping cart, and secure checkout pages using AEM
- Performed CLV analysis to pinpoint high-value customer segments, boosting marketing campaign ROI by 10%

**Tech Stack:** Adobe Experience Manager, Adobe Campaign Classic, Marketo, HTML, CSS, Python

### San Jose State University

*Software Engineering Assistant – Part Time*

May 2023 – Dec 2023

U.S.A

#### Website Enhancement and Analytics for University

- Utilized Google Analytics for audience, acquisition, and behavior analysis and Siteimprove for fixing broken links
- Created department-specific reports on Looker Studio to visualize user sessions, page analytics, and relevant metrics
- Built a Streamlit chatbot integrated with OpenAI's large language model and SQL for dynamic English interactions

**Tech Stack:** OpenAI, Google Analytics, Microsoft Excel, Google Sheets, Siteimprove, Docusign, HTML, CSS, Javascript

## PROJECTS

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#### Video on Demand Full Stack Web Application

- Seamlessly integrated user authentication, video compression and upload in the next.js application
- Implemented Docker containerization and Cloud Run deployment on GCP for scalable and highly available media

#### Driver Behavior Analysis Using Artificial Intelligence

- Experimented with ResNet50, VGG-16, Inception V3 models and created custom efficient CNN model having 98.7% accuracy
- Performed dimensionality reduction with PCA and fine-tuned a deep learning model to cluster unlabeled images

#### Serverless Face Mask Violation Detection Using Flask and AWS

- Attained 98% accuracy in face mask violation detection using AWS Rekognition
- Ensured scalability and zero downtime with AWS Lambda, AWS SQS, and load balancer

## SKILLS

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- **Languages:** Python, Java, C++
- **Web Technologies:** React, AngularJS, Typescript, REST, NodeJS, HTML, CSS, JavaScript
- **Cloud Services:** AWS CloudWatch, AWS Lambda, AWS API Gateway, AWS ECS, AWS RDS, AWS S3
- **DevOps Tools:** Git, Jenkins, Docker, Kubernetes, Bitbucket, AWS Elastic Container Service
- **Libraries:** TensorFlow, Pytorch, Gym, OpenCV, Matplotlib, Seaborn, Pandas, Numpy, SciKit-learn, Keras
- **Database:** SQL (PostgreSQL,MySQL), T-SQL (Microsoft SQL Server), NoSQL (MongoDB, GCP Firestore, DynamoDB)
- **Certifications:** React - The Complete Guide (Udemy), Safe Agile Certification, AWS Certified Cloud Practitioner (Udemy)