

GOWTHAM CHANDRASEKARAN

San Jose, CA | (669) 204-1307 | gowtham6309@gmail.com | [linkedin.com/in/gowtham-c](https://www.linkedin.com/in/gowtham-c) | gowthamchandrasedkaran.com

Professional Experience

Software Engineer, *Thereafter, Inc., United States*

Aug 2024 - Present

- Developing and integrating transactional and promotional emails by leveraging **SendGrid**, **Nest.js** services, and event-driven **Angular** code, enhancing communication efficiency and user engagement.
- Contributing to the development of an AI Podcast Feature utilizing **Retrieval-Augmented Generation (RAG)** based models.
- Engaged in ad hoc development and maintenance across both front-end and back-end, providing code reviews and technical support to ensure consistent code quality and reliability.

Software Engineer, *Jaunt, United States*

Aug 2024 - Present

- Spearheaded the deduplication of 150,000 web-scraped articles by clustering latitude and longitude using **DBSCAN** and identifying duplicates using **Fuzzywuzzy**.
- Conducted comprehensive analysis and visualization of clustering results, providing actionable insights that refined text processing strategies.
- Leveraged **AWS RDS** with **PostgreSQL** to efficiently store and manage large volumes of web-scraped content, ensuring secure and scalable data storage.

Software Engineering Assistant, *San Jose State University, United States*

Dec 2023 – Jul 2024

- Developed a **Streamlit** chatbot with **OpenAI** and **SQL** database integration, enabling non-technical staff to easily retrieve information from the college database through English language interactions.
- Utilized **Google Analytics** for audience, acquisition, and behavior analysis and **Siteimprove** for fixing broken links.

Software Engineer, *Tata Consultancy Services, India*

May 2019 – May 2021

- Developed H&M's **retail** tags management dashboard, tailoring product tags creation and management based on different regions.
- Developed microservices using **Spring Boot**, enhancing the scalability and maintainability of the tags management dashboard.
- Utilized **Hibernate** for ORM, reducing database access times by 30% and improving application performance.
- Developed a **Single Page Application (SPA)** using **React** to analyze server metrics and handle tickets for Citibank.
- Visualized metrics using **Chart.js** to create graphs and pie charts, enhancing data interpretation and decision-making.
- Implemented lazy loading and utilized **React Profiler** to optimize application performance and improve user experience.
- Architected and deployed scalable and reliable solutions using **AWS** services such as EC2, S3, Lambda, RDS, and DynamoDB.
- Integrated **AWS CloudWatch** and **CloudTrail** with the dashboard for comprehensive monitoring and logging.
- Created **backend** services (StatusTracker, MetricsAggregator, TicketManager) using **Node.js** with **Express.js** framework, improving system reliability by 40%.
- Orchestrated **CI/CD** pipelines using Jenkins, Docker, and Kubernetes, ensuring seamless deployments.
- Led **Agile** sprints as Scrum Master, managing Kanban backlogs and retrospectives, improving team productivity by 50%.
- Formulated **SQL** and **NoSQL (Postgres, MongoDB)** queries and implemented stored procedures, triggers, and functions to automate workflows handling 15 million transactions.
- Enabled **RESTful** APIs using with **OAuth 2.0** and **JWT**, enhancing security breach mitigation by 70%.
- Orchestrated **CI/CD** deployments with **Kubernetes** in OpenShift including liveness and readiness for each microservice.
- Adopted **Test-Driven Development (TDD)** with **Jasmine, Jest, JUnit** and **Enzyme**.

Technical Skills

Languages	:	Python, Java, JavaScript, TypeScript, HTML5, C
Frameworks	:	React, Next.js, Angular, Spring, Kafka, Redux, NodeJS, Flask, Tailwind, Nest.js
Data Storage	:	PostgreSQL, MySQL, MongoDB, Cassandra, Redis, Oracle, DynamoDB
AWS Services	:	Cloud Watch, EC2, Load Balancer, Lambda, Elastic Search, API Gateway, SQS, S3, RDS
DevOps	:	AWS, Docker, Kubernetes, Openshift, Jenkins, Git
Networking and Tools	:	REST API, gRPC, WebSockets, Splunk, JIRA, GitHub, Hibernate

Projects

Generative AI Fitness Coach:

- Developed a scalable fitness coach chatbot application with **Next.js**, integrating **OpenAI APIs** for advanced conversational AI and managing authentication with **Clerk**.
- Utilized **Prisma** and **PlanetScale** for database management, ensuring robust and scalable data handling.
- Deployed the application on **Vercel** and converted it into a **Progressive Web App (PWA)** to ensure cross-platform accessibility and a seamless user experience.

Serverless Face Mask Violation Detection Application:

- Implemented an efficient and cost-effective solution for real-time monitoring and alerting of face mask violations using **AWS**.
- Achieved 98% accuracy in face mask violation detection using **AWS Rekognition** for precise and reliable image analysis.
- Ensured scalability and zero downtime with a serverless architecture utilizing **AWS Lambda**, **API Gateway**, **AWS SQS**, and a **load balancer**.

Education

San Jose State University, California, Master of Science in Computer Science, GPA: 3.92/4.00

Aug 2021 - Dec 2023

Anna University, Tamil Nadu, Bachelor of Engineering in Computer Science and Engineering

Aug 2015 - May 2019