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*

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

SKILLS

Languages: Python, Java, C++, HTML, CSS, JavaScript, Golang
Cloud Technologies: EC2, SQS, SNS, ECS, DynamoDB, RDS, Lambda, CloudWatch, SageMaker, GCP
Web Technologies: React, Redux, Next.js, Angular, Express, JavaScript, REST, Node.js, Git, Docker, Kubernetes
Databases: SQLServer, PostgreSQL, Firebase, MongoDB
Tools and libraries: Netlify, OpenAI function call, Pandas, Numpy, Matplotlib, Seaborn, Scikit-learn, Google Analytics

EXPERIENCE

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

- Built a React-based server health monitoring dashboard for CitiBank, integrating REST endpoints for real-time CPU, disk, and network metrics. Enhanced metric readability by 98%, using React and Node.js to optimize dashboard performance.
- Implemented a 2-factor user authentication process using password and OTP verification and strengthened security with OAuth 2.0 and SAML 2.0 integration, enhancing protection while optimizing user experience.
- Architected key components for H&M's Label Management System, facilitating dynamic customization of tag layouts and content based on regional regulations and market demands, directly contributing to H&M's global scalability.
- Effectively utilized Kubernetes for Docker orchestration and containerization strategies, orchestrating the deployment of diverse services and components.
- Leveraged advanced indexing techniques and query optimization strategies, resulting in reduced query execution times by up to 30%.
- 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:** SQLServer, PostgreSQL, AWS DynamoDB, AWS EC2, AWS Lambda, AWS CloudWatch, Docker, Kubernetes, REST, Adobe Analytics, Adobe Campaign, Marketo

Student Assistant — San Jose, California
San Jose State University — *Jan 2022 - Present*

- 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

- **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.
- **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.
- **Targeted Advertisement**: Collected multiple consumer emails and used Mahout and Hadoop to cluster users based on their interests by analyzing the most frequent terms used in the emails and then target advertisements to each group.