Gowtham Chandrasekaran

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EDUCATION

San Jose State University San Jose, California
Master's in Computer Science - G.P.A: 4.0/4.0 *08/2021 - 05/2023 (Expected)*

Anna University Chennai, India
Bachelor's in Computer Science - G.P.A: 8.2/10.0 *08/2015 - 04/2019*

PROFESSIONAL EXPERIENCE

Tata Consultancy Services 05/2019 - 05/2021
Full Stack Engineer *India*

- Constructed React components on a server health monitoring dashboard to visualize CPU usage rate, Disk Capacity Usage, Network throughput that improved the readability of metrics.
- Created RESTful APIs to access server health metrics from the database and processed them ensuring data consistency and security.
- Implemented a 2-factor User authentication page that performs password and OTP verification which improved the security using Angular and NodeJS.
- Created concept mockups and wireframes that increased overall client satisfaction and implemented them in the production environment.
- Developed unit tests using TDD to ensure code quality and prevent regressions.
- Collaborated with cross-functional teams, including UX designers, product managers and DevOps engineers, to deliver high-quality projects on time and within budget.
- Worked in Agile/Scrum methodology, using JIRA for project management

PROJECTS

Expense Tracker [React] [expense-tracker-gowtham.netlify.app]
- Created an expense tracker application that displays expenses made in a year and has functionalities like adding, deleting, and filtering expenses based on a year.

Frames and Pages [MongoDB, Express, Angular, Node, Amazon S3] [framesandpages.netlify.app]]
- Cofounded and created a website using MEAN stack that recommends books and movies and reviews books of budding authors.

Tinder Clone [MongoDB, Express, React, NodeJS] [tinder-clone-gowtham.netlify.app]
- Created a Tinder clone that fetches data from MongoDB and displays images and names of the people on swipeable Tinder cards. Hosted the front end on Netlify and the back end on Heroku.

Optimal Logistics Routing for Drones [Github Link]
- Implemented a time and resource-efficient solution to find the optimal route for drones to deliver from a warehouse to different locations using the concept of the traveling salesman technique.

Handover Optimization in 5G Network Using Reinforcement Learning [Q Learning] [Github Link]
- Wrote a paper and implemented a solution that optimized the number of handover connections in a self-developed 2D grid world environment having 5G antennas using Q Learning.
- Leveraged Intel OneAPI for boosting the performance by parallel processing.

Targeted advertising [Mahout] [Github Link]
- Collected multiple consumer emails and used Mahout to cluster users based on their interests by analyzing the most frequent terms used in the emails and then target advertisements to each group.

Driver Distraction Detection (Computer Vision)
- Built a Convolutional Neural Network model to detect distractions while driving and crafted a scoring mechanism for the drivers that can be used by insurance companies to set pricing plans to avoid gender/age bias.

TECHNICAL SKILLS

- **Front-end**: React, Angular, JavaScript, HTML, CSS
- **Back-end**: Node.js, Python, Express, RESTful API
- **Database**: PostgreSQL, MySQL, BigQuery, MongoDB
- **Tools**: Git, AWS, Heroku, JIRA, Bitbucket, Docker, Ansible
- **Methodologies**: Agile, Scrum, TDD

CERTIFICATIONS

- SAFe® 4 Practitioner
- AWS Cloud Practitioner Udemy Course
- Complete Python Bootcamp Udemy
- MERN stack course MongoDB Express React and Nodejs