VINUTHA ANANTHACHANDRAN

Los Angeles, CA | (425) 499-6797 | ananthac@usc.edu | [LinkedIn](#) | [Personal Website](#) | [GitHub](#) | vGHC'22

Education

University of Southern California – Viterbi School of Engineering   December 2023
Masters - Computer Science | GPA: 3.65

Visvesvaraya Technological University - APS College of Engineering   July 2016
Bachelors - Computer Science | GPA: 4.0

Technical Skills

✓ **Programming Languages:** Python, Java, C, C++, HTML, CSS, JavaScript, TypeScript, SQL, Pl/SQL, EJS, ABAP
✓ **Software Development Tools:** Node.JS, Git, Jupyter, Visual Studio
✓ **Platforms:** GCP, GitHub, SAP ERP
✓ **Web Frameworks:** Flask, AngularJS, Express

Course Work:

✓ Analysis of Algorithms	✓ Web Technologies	✓ Machine Learning for Data Science
✓ Foundation of Artificial Intelligence	✓ Database Systems	✓ Information Retrieval & Web service engine

Professional Experience

Hewlett-Packard Enterprise – Enterprise Services
Senior Application Developer   May 2017 - Nov. 2021

✓ Managed and supervised a team of 3 onsite and 2 offshore developers to implement an intuitive healing tool to detect and reload orders with errors; improved productivity by 60%.

✓ Spearheaded E2E development of a REST API to transform invoicing process from paper to e-invoices; 10,000+ DAU with over 99.9% reliability with latency < 50 ms; Utilized for government financial reporting process.

✓ Created a Web Dynpro to track real-time global and regional tariff classifications of products; 75% increase in accuracy of yearly financial postings worth $9 billion; Enabled a Just-in-time (lean) supply chain.

✓ Devised a REST security webservice; Acts as a service provider and a service consumer to fetch buyer's exact geo location and perform real-time embargo screenings; Generated $24 million in revenue.

✓ Designed and constructed an HTTP REST callback mechanism with bearer token authentication to share partner and transaction status with 5000+ customer portals in real-time.

Software Development Engineer   Sept. 2016 - Apr. 2017

✓ Implemented a highly scalable decision tree to triangulate taxes for European customers and generate GST for Indian e-commerce customers; enhanced accuracy by 80%.

✓ Developed an import-export tariff calculation engine using dialog module to modernize trade compliance; Improved performance by over 50% and user acceptance by 70% compared to legacy process.

Academic Projects

✓ Developed a distributed, highly scalable search & reservation web app using AngularJS (HTTP callbacks) for the frontend & Node.JS (real-time AXIOS call) for the backend; Hosted on GCP [Desktop App] [Mobile Browser App]

✓ Developed a genetic algorithm to solve travelling salesman problem using informed search. [GitHub]

✓ Developed a Resnet50, EfficientNetB0 and VGG16 classifier to classify videos using moving averages of the video frames. [GitHub]

✓ GO-Game agent that learns using min-max algorithm and alpha-beta pruning. [GitHub]

✓ Android application to search locations based on location proximity, reserve and manage bookings. [Android Demo]

✓ A multi-layer perceptron neural network for binary classification of XOR, Gaussian and Circle dataset. [GitHub]

✓ Developed a full stack travel planning application; Implemented using Node.JS Express for backend, EJS for server-side rendering, Bootstrap for design, Jest test cases & JavaScript for client-side events handlers. [App Link]

Leadership And Involvement

✓ **Associate Director of Professional Events, USC Women In Engineering** (2022 – Present) [Details]:
  • Organized, and led technical development conferences for USC's premier organization for women engineers. Increased outreach with industry professionals by 40% for sponsorship & mentorship.

✓ **President of Technical business events** (2018 – 2021):
  • Led a forum at HPE to discuss new techniques and process optimization in emerging technologies.

✓ **Teaching Assistant, USC Viterbi School of Engineering** (2022 – Present) for Database Systems and Introduction to data science.