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: 3.5

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, ABAP
- ✓ **Software Development Tools:** Node.JS, Git, Jupyter, Visual Studio
- ✓ **Platforms:** GCP, GitHub, SAP ERP
- ✓ **Web Frameworks:** Flask, AngularJS

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

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 business search and reservation web application using AngularJS (HTTP callbacks) for the frontend and Node.JS (real-time AXIOS call) for the backend; Hosted on GCP [App Link]
- ✓ Developed a genetic algorithm to solve travelling salesman problem using informed search. [GitHub]
- ✓ Developed a 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. [YouTube Link]
- ✓ A multi-layer perceptron neural network for binary classification of XOR, Gaussian and Circle dataset. [GitHub]

Leadership And Involvement

- ✓ **Associate Director of Professional Events, USC Women In Engineering** (2022 – Present):
    - Organized, and led technical development conferences for USC's premier organization for women engineers. [Details]
    - Increased outreach with industry professionals by 40% for sponsorship and mentorship – work with Nvidia, Salesforce, Meta etc.
- ✓ **President of Technical business events** (2018 – 2021):
    - Led a forum at DXC.Technology to discuss new techniques and process optimization in emerging technologies.
    - Mentored and coached peers in ABAP and Global Trade Compliance technology as a Technical Trainer.
- ✓ **Teaching Assistant, USC Viterbi School of Engineering** (2022 – Present) for Introduction to data science.