

# VINUTHA ANANTHACHANDRAN

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## 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 & supervised a team of 3 onsite & 2 offshore developers to implement an intuitive healing tool to detect & 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 & 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 & a service consumer to fetch buyer's exact geo location & perform real-time embargo screenings; Generated \$24 million in revenue.
- ✓ Designed & constructed an HTTP REST callback mechanism with bearer token authentication to share partner & 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 & 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% & user acceptance by 70% compared to legacy process.

## Academic Projects

- ✓ 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 [\[Desktop App\]](#) [\[Mobile App\]](#)
- ✓ A genetic algorithm to solve travelling salesman problem using informed search. [\[GitHub\]](#)
- ✓ A Resnet50, EfficientNetB0 & VGG16 classifier to classify videos using moving averages of the video frames. [\[GitHub\]](#)
- ✓ GO-Game agent that learns using min-max algorithm & alpha-beta pruning. [\[GitHub\]](#)
- ✓ An Android application to search locations based on location proximity, reserve & manage bookings. [\[Android Demo\]](#)
- ✓ A multi-layer perceptron neural network for binary classification of XOR, Gaussian & Circle dataset. [\[GitHub\]](#)
- ✓ 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. [\[App Link\]](#)
- ✓ An application to correlate search engines, crawl websites, generate inverted indexes to optimize & bolster rapid document searching; Implemented using Flask for backend, Bootstrap for design & JS for event handling. [\[App Link\]](#)

## 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 Databases & Intro to data science.