

VINUTHA ANANTHACHANDRAN

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EDUCATION

University of Southern California

Master of Science - Computer Science | GPA: 3.7

Los Angeles, CA

December 2023

Visvesvaraya Technological University

Bachelor of Engineering - Computer Science | GPA: 4.0

Bengaluru, Karnataka

July 2016

SKILLS AND COURSEWORK

- **Programming Language:** Python, Java, C, C++, HTML, CSS, Bootstrap, JavaScript, TypeScript, SQL, EJS, Android, Kotlin
- **Software Tools & Platforms:** Node.JS, Git, GitHub, Jupyter, Visual Studio, Android Studio, GCP, Unity, SAP ABAP
- **Web Framework:** Flask, AngularJS, Express
- **Relevant Coursework:** Analysis of Algorithms, Database systems, Machine Learning for Data Science, Foundations of Artificial Intelligence, Web Technologies, Information Retrieval & Web Search Engines, Advance Game Consoles & Mobile Games

EXPERIENCE

Hewlett Packard Enterprise – Enterprise Services

Bengaluru, Karnataka

Senior Application Developer

May 2017 – November 2021

- Managed and led a diverse team of 3 onsite and 2 offshore developers to design and deploy an intuitive healing tool that detects and reloads failed orders, resulting in a 60% decrease in bounce rate.
- Spearheaded E2E development of a high-performing REST API that transformed invoicing process, resulting in a 98% reduction in paper-based invoices. 10,000+ daily active users (DAU) with latency under 50 ms.
- Developed and deployed a distributed web application to perform product classification, resulting in a 75% increase in accuracy of financial postings worth \$9 billion and enabling Just-in-time (lean) supply chain.
- Devised a REST webservice, acting as a service provider and a service consumer, for retrieval of buyer's precise geolocation and performing embargo screenings in real-time, resulting in \$24 million in revenue.
- Developed a secure HTTP REST callback mechanism with bearer token authentication, driving a 70% increase in partner and transaction data integrity for over 5000 portals.

Hewlett Packard Enterprise – Enterprise Services

Bengaluru, Karnataka

Software Development Engineer

September 2016 – April 2017

- Implemented a highly scalable decision tree that triangulated and generated taxes for European and Indian e-commerce customers, resulting in an 70% improvement in accuracy.
- Devised a robust monitoring and alerting system that optimized third-party vendor inventory management, resulting in a decrease of 75% in stockouts.
- Developed a tariff calculation web engine to enable global trade compliance in real-time, resulting in \$15 million in revenue and an 85% increase in user acceptance compared to previous legacy process.

ACADEMIC PROJECTS

- **Business Search & Reservation app:** Proximity and keyword-based searcher, built using Java for Android, AngularJS for frontend & Node.JS (asynchronous AXIOS call) for backend. Hosted on GCP [\[Web App\]](#) [\[Android Demo\]](#)
- **Web Information Retriever:** Generates insights through search engine data correlation, crawl websites, & generates inverted indexes for rapid searching. Constructed using Flask for backend, Bootstrap for design & JS for event handling. [\[App Link\]](#)
- **Travel Planner app:** Location and date-based itinerary generator with a recommendation engine. Uses Node.JS Express for backend, EJS for server-side rendering, JavaScript for client-side rendering, and JEST test cases. Hosted on GCP. [\[Web App\]](#)
- **Video Classifier:** Resnet50, EfficientNetB0 & VGG16 convolution neural network (CNN) to classify videos using moving averages of image frames. [\[GitHub\]](#)
- **Binary Neural Network:** Multi-layer perceptron to classify XOR, Spiral, Gaussian & Circle dataset. 95% accuracy. [\[GitHub\]](#)
- **Go Game Agent:** Learns and optimizes game movements using min-max algorithm & alpha-beta pruning. [\[GitHub\]](#)

LEADERSHIP AND INVOLVEMENT

- **Lead Graduate Teaching Assistant, USC Viterbi School of Engineering** (2022 – Present): Lead TA for Database system, Information retrieval and web search engines, and Introduction to data science courses.
- **Associate Director, USC Women in Engineering** (2022 – Present) [\[Details\]](#): Directed technical conferences for USC's student organization for women engineers. Boosted 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 optimizations in emerging technologies.