Vinanti Parikh

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EDUCATION

Stony Brook University — Aug 2022 - May 2024
Master of Science in Computer Science, **GPA: 3.74/4.0** — Stony Brook, New York
Coursework: Analysis of Algorithms, Foundations of Human Computer Interaction, Data Mining Concepts and Techniques, Theory of Database Systems, Data Science Fundamentals, Distributed Systems

Pandit Deendayal Petroleum University (PDPU) — Aug 2016 - Jul 2020
B.Tech in Information and Communication Technology, **GPA: 9.03/10.0** — Gandhinagar, India
Coursework: Computer Networks, Artificial Intelligence, Machine Learning, Big Data Analytics

EXPERIENCE

Divergent Technologies Inc. — May 2023 – Aug 2023
Software Engineering Intern — Torrance, California

- Performed integration of log data from various hosts and sources for establishing relationships between entities, and to develop a Plotly Dash app for comprehensive correlation analysis.
- Utilized **Splunk Rest APIs** to expedite extraction and consolidation of dynamic data, resulting in a 50% reduction in data retrieval time and enhancing operational efficiency.
- Optimized code with **Pandas'** vectorized operations, strategically reusing the code for enhanced productivity and achieving a 78% acceleration in execution.
- Developed a **Prisma Schema** and **PostgreSQL** - based database architecture with **GraphQL** endpoints for streamlined operations.

Synoptek India Pvt. Ltd. — Aug 2020 – Jul 2022
Associate Software Engineer — Ahmedabad, India

- Created **SSIS ETL** pipelines to extract, transform and load data from multiple client data sources, to construct Data Warehouses.
- Designed cubes using SSAS for advanced 3D data view by connecting and modeling Dimension & Fact tables from SQL Server.
- Generated **SSRS** and **PowerBI** reports to analyze sales and product performance parameters of clients, highlighting **20+ KPIs**.
- Led an internal project to create reports that analyzed resource hours and income, increasing the company's revenue by **10%**.
- Worked in an agile environment across numerous teams and solo projects, to constantly deliver end-to-end client deliverables.

CAAX Technologies — May 2018 – Jul 2018
Software Engineering Intern — Ahmedabad, India

- Built an E-commerce website for electronics, applying **ASP.NET** framework, with front-end developed in HTML5, CSS & JS.
- Constructed and linked interactive functionalities using **C#** in the back-end, and utilized MySQL database to store user data.
- Supported in managing SEO to expedite site traffic by **30%**, by optimizing the website infrastructure for better interpretation.

PROJECTS

Hand Gesture and Voice Controlled Music Application — Aug 2022 – Dec 2022
- Developed a real-time system using **OpenCV**, **MediaPipe**, and **Google API** to enable in-app control of Spotify through voice and hand gestures.
- Utilized the Spotify Web API for OAuth 2.0 authorization to obtain users' permission before accessing their application data.
- Built a User Interface displaying hand gesture recognition with contour-based landmarks, achieving an average accuracy of 95%.

Image Recognition as a Service — Jan 2023 – May 2023
- Developed an on-demand Image Recognition Service that automatically and cost-effectively scales in and scales out using **AWS EC2**, **SQS** and **S3**.
- Improved the response time of the service by more than 1 minute using a load balancer that distributes the work among different app instances when the user requests are increased.

Twitter Sentimental Analysis Tool — Aug 2019 – Dec 2019
- Designed an elastic web application using different **Google Cloud Platform** APIs to provide sentiments of Twitter users about trending movies and songs.
- Tested application scalability through the generation of 5000 user requests and 500 concurrent requests using Apache Beam, illustrating robust performance under high loads.

TECHNICAL SKILLS

Programming Languages – Python, Java, C, C++, JavaScript, C#
Web Development – HTML, CSS, jQuery, Bootstrap, Kubernetes, Django, React.js, Node.js, REST, GraphQL
Databases – MySQL, SQL Server Management Studio, IBM Db2, PostgreSQL, NoSQL, Oracle Database
Frameworks/Tools – Microsoft PowerBI, Tableau, Azure Data Factory, AWS, GCP, Splunk, Git, CI/CD

ACHIEVEMENTS AND EXTRACURRICULARS

- Worked as the Publicity Head in the Social and Cultural Sub-Committee at the University's Cultural Festival during senior year.
- Volunteered at 'Farmer's Association for Rural Management,' an NGO committed to the upliftment of deprived communities.