

VIVEK VENKATESHPRASAD

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Expertise

Programming Languages: Python, JavaScript, Java, SQL, NOSQL/MQL, HTML5/CSS

Technologies/Frameworks: Flask, Django, FastAPI, numpy/pandas, Apache Spark(PySpark), OpenCV, Pytorch, TensorFlow, Flutter, GCP, AWS, Linux, Jenkins, Git, Bootstrap, React, Selenium

Databases: MongoDB/Mongo Atlas, Firestore, MySQL, PhpMyAdmin, Oracle, PostgreSQL, DynamoDB

Education

University of California, Riverside

Sep 2023 – Dec 2024

Master of Science in Computer Science - GPA: 3.9/4

Riverside, California

B.M.S College of Engineering

Sep 2017 – Aug 2021

Bachelor of Science in Information Science - GPA: 3.6/4

Bengaluru, Karnataka, India

Experience - 2.5 years

Cisco

Feb 2021 – Aug 2023

Software Engineer

Bengaluru, Karnataka, India

- Engineered and deployed over 6 advanced tools and solutions for Cisco's Business Critical Services 3.0 SaaS offering, delivering operational insights into network devices and driving over \$7 million in revenue.
- Designed optimized algorithms to boost RESTful API performance, reducing processing time by 73% through advanced multi-threading, indexing, and data sharding techniques.
- Collaborated with data scientists to identify key configuration themes across devices using ML/AI (LSTM/BERT/LLM) models to recommend optimal configurations which reduced customer tickets by 30%.
- Led a team of 4 in migrating a CPU-based ML prototype into a GPU-accelerated cloud app using OpenStack, S3, MongoDB and PyTorch, reducing model training time for 1M+ network device configurations from 8 hours to 1 hour
- Worked on an automated association rule mining and OS specific best practices parsing engine using Java (Apache POI) and Python (openpyxl, RegEx, BeautifulSoup) to extract structured data from a corpus.
- Partnered with cross-functional teams to design robust REST API microservices using Flask and FastAPI, delivering seamless, real-time customer, metrics and forecast data.
- Streamlined CI/CD pipelines to automate build, test, and deployment processes using Docker, Jenkins, SonarQube, OpenShift/GCP that decreased prototype to production time by 40%.
- Developed custom queries and triggers in MongoDB Atlas to optimize document storage and retrieval, boosting throughput, improving scalability, and reducing latency, which doubled operational efficiency.
- Followed Agile Methodology and addressed bugs in applications using JIRA and used Git for version control.
- Regularly organized and hosted technical and non-technical events for a global audience of 1,000+ attendees, driving engagement and knowledge-sharing across diverse groups.

Software Intern

- Redesigned UI using Javascript/Typescript to display interactive charts and figures and to support multiple themes.
- Developed Rest APIs in Django/Flask for historical data trend analysis and wrote unit test cases using JUnit/pytest.
- Improved structure, readability and reusability of legacy code by following coding best practices and guidelines.

Projects

Patronus - An app to help people with dementia | *React Native, Flask, LangChain, Qdrant, Gemini, RAG* **2024**

- Co-developed an award-winning app at Cerebral Beach 2024(L.A.'s largest Gen AI hackathon). The app, designed as a personal assistant and memory bank for individuals with dementia, received top honors, including "Best Zero to One Startup," "Most Responsible Use of AI," and "Most Innovative Project."

Movie plot generation using predictive text | *Large language modelling(LLM), Pytorch, Sentiment Analysis, RNN* **2024**

- Developed a movie plot generation application using predictive text as part of my AI course. Designed to generate hit movie ideas leveraging the IMDB top movies dataset

Wander Wisdom - travel search engine | *React-Javascript, Python, Geo Spatial data handling, Web scraping* **2024**

- Created a travel destination search engine utilizing BERT/PyLucene for natural language processing, based on data scraped from Reddit. Integrated with Maps API to accurately display the precise location of destinations along with relevant travel information.

P.I.G.L.E.T | *React Native, Javascript, Google Firestore/Firebase, Google Cloud Platform* **2021**

- "Platform for Issues and Grievances Laid out by Emerging Technologies". Created a progressive web application that users can report civic problems in real time that gets directly reported to the authorities responsible for handling them.

Automatic Appraisal form application | *Java, JDBC, WAMP stack development* **2020**

- Modernized the appraisal form submission process by developing a full-fledged application. Improved efficiency and user experience by replacing the outdated, manual process with an automated system. Successfully launched the application for use in the academic year 2020-21.