# Vivek Venkateshprasad

951-536-8783 vivekv.contact@gmail.com linkedin.com/in/vi-vek/ github.com/Chuckoo

## Expertise

**Programming Languages**: Python, JavaScript, Java, Dart, SQL, NOSQL/MQL, C, C++, HTML5/CSS
**Technologies/Frameworks**:, Django, Flask, FastAPI, numpy/pandas, Apache Spark(PySpark), OpenCV, Pytorch,Tensorflow, Flutter GCP, AWS, Linux, Jenkins, Git, Bootstrap, React, Selenium
**Technical knowledge**: Advanced OS, Theory of Computation, Algorithms, Computational Biology(Bio-informatics), Unix/Shell Programming
**Databases**: NoSQL, MySQL, PhpMyAdmin, Oracle, MongoDB, Mongo Atlas, PostgresSQL, Firestore

## 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

**Cisco** **Feb 2021 – Aug 2023**
*Software Engineer* *Bengaluru, Karnataka, India*

- Improved performance of RESTful APIs to bring down the total processing time from 30 mins to 8 mins by employing multi-threading and indexing techniques.
- Collaborated with data scientists and architects to develop an application utilizing LSTM algorithms and Masked Language Modeling (NLP) to recommend optimal configurations for customer network devices in Cisco's SaaS offering.
- Led a team that converted proof of concepts to a working prototype designed using OpenStack, AWS, S3, Mongo Atlas, Python/Django
- Collaborated with cross functional teams to create a REST API microservice using Flask and Fast API to provide the UI with customer, metric and forecast data.
- Took a lead role in developing an application to showcase to the customers the industry standard best practices suited for their devices using Market basket analysis and Machine learning to prevent device failure.
- Containerized services using Docker and deployed it onto OpenShift and GCP.
- Wrote custom queries and triggers on Mongo Atlas Databases to support application document storage and retrieval.
- Addressed bugs and features in applications using JIRA and used Git for version control.
- Regularly planned and hosted technical/non-technical events and mentored interns.

*Software Intern*

- Redesigned UI/UX of a network device risk assessment tool to support multiple themes.
- Developed Rest APIs for historical data trend analysis.
- Improved structure, readability and reusability of legacy code.
- Collaborated with the University recruiting team to host multiple events.

## Projects

**Product Classification in E-Commerce Sites** | *Research Paper publication, Python, AI/ML* **2020**
- Researched on various e-commerce solutions to classify products based on provided description, image etc to automate product classification. Paper was published by Springer in "Progress in Advanced Computing and Intelligent Engineering Proceedings of ICACIE 2020" journal - (https://doi.org/10.1007/978-981-33-4299-6_40)

**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.

**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.

**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

**Travel search engine** | *React-Javascript, Python, Geo Spatial data handling, Web scraping* **2024**
- Created a travel destination search engine utilizing BERT 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.