Bhargav Vummadi
Software Developer

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EDUCATION

Master of Computer Science, *University of Oklahoma – 3.8* — 2021 — 2023
Bachelor of Technology in Computer Science and Engineering , *LBRCE, India – 3.8* — 2016-2020

SKILLS

Tools and Languages	Python, PHP, Git, LaTeX,GitLab, MarkDown, Java, JavaScript,React JS,Node JS, Next JS, SpringBoot, Figma, Adobe XD, Bash scripting
Databases	MySQL, SQLite, Firebase, MongoDB
Operating Systems	Windows, Linux
Cloud and tools	Google Cloud Platform , Google colab, Docker

TECHNICAL EXPERIENCE

Software Developer III — **July 2023 — Present**
Paycom Payroll — *Irving, Texas*
- Developed an internal analytical tool which gives a very good insights for the company.
  - Developed responsive interfaces using React.js for seamless user experiences.
  - Implemented robust server-side logic with PHP and Paycom MVC, enhancing back-end functionality.
  - Collaborated cross-functionally with QA and Product teams to align development efforts.
  - Contributed actively to code reviews, ensuring adherence to coding standards.
  - Worked in an agile environment, participating in sprint planning and retrospectives.
  - **Tech stack:** React JS, php , Docker, MYSQL

Software Developer Intern — **May 2022 — August 2022**
Paycom Payroll — *Irving, Texas*
- Developed an internal analytical tool which gives a very good insights for the company.
  - Implemented frontend graphs using high charts for the dashboard
  - Responsible for api development utilizing Jfrog artifactory querying and collaborated with team member for database management.
  - **Hackathon:** Collaborated with a team to develop a tournament brackets application using the Paycom UI library. Assisted in writing the frontend development code and implementing the user interface.
  - **Tech stack:** React JS, Next JS and MYSQL

Graduate Research Assistant — **October 2021 — May 2023**
University of Oklahoma — *Norman, Oklahoma*
- Developed a web application for visualizing graphs and data.
  - Made authentication and users can upload their own data.
  - Designed and developed a secure serial key activation system with expiration functionality.
  - Responsible for the developing full-stack application.
  - Developed multiple Api endpoints using REST architecture.
  - Visualizing with graphs which are generated using python and paraview
  - Responsible for server maintenance (Azure windows instance)
  - **Tech stack:** HTML5, CSS3, Vanilla JS , Python flask, SQLite

Assistant System Engineer — **September 2020— April 2021**
Tata Consultancy Service Limited — *Hyderabad, India*
- Completed E3 efficiency level in React JS development course.
- Underwent Java SpringBoot training and Salesforce training.

Machine Learning Intern — **May 2019 — July 2019**
Verzeo — *Hyderabad, India*
- Developed a ML attendance monitoring application
- Learnt different ML models and their working

Software Development Intern(IOT) — **May 2018 — June 2018**
SytiqHUB — *Vijayawada, India*
- Developed an embedded c code for accident avoiding prototype car.
- Developed an embedded c code for automating furniture in household.
- Learnt about different sensor and MCU's (Arduino and Raspberry pie).

PROJECTS

Fractals

- Purpose: Exploring bundling and deployment of static web applications
- Approach: Use Docker and Google Cloud technologies for web deployment
- Workflow:
  - Developing a static web application to display the fractal images
  - Bundle static web app with Docker containers
  - Deploy on Google Cloud Run for scalability
  - Leverage Google Cloud Functions for event-driven workflows

  Technologies used   Docker, Google Cloud Run, Google Cloud Functions, Flask, HTML5, CSS3, JS.

Twitter Sentiment Analysis

- Developed a machine learning model using K-Nearest Neighbors (KNN) algorithm for sentiment classification of tweets.
- Scraped tweet data using the ScrapSn Python module, automating the process of retrieving related tweets based on user-entered keywords.
- Created a user-friendly interface and utilized the Flask web framework for seamless automation and interaction.
- Built interactive dashboards using Plotly library to visualize sentiment analysis results.

  Technologies used   ScrapSn, Flask, and Plotly, Bootstrap, HTML5, CSS3, JS.

Star Wars Trivia (Hacklahoma 2023), Portfolio

ACHIEVEMENTS

- Receiver of JCR Fellowship Award, University of Oklahoma

- Published Research Paper on Song Genre Classification in International Journal of Advanced Science and Technology.

- Team Lead for both the major and minor projects in undergrad.

- Certified as elite candidate in C and DBMS by National Programme on Technology Enhanced Learning (NPTEL India).

- Successfully developed website for ALUMNI students during my undergrad and a member of Incubation Center in undergrad.