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# Bhargav Vummadi

## Software Developer

Portfolio: [bhargav.io](https://bhargav.io)  
[github.com/bhargavvummadi](https://github.com/bhargavvummadi)  
[linkedin.com/in/bhargav77/](https://linkedin.com/in/bhargav77/)

### 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

<b>Tools and Languages</b>	Python, PHP, Git, $\LaTeX$ , GitLab, Markdown, Java, JavaScript, React JS, Node JS, Next JS, SpringBoot, Figma, Adobe XD, Bash scripting
<b>Databases</b>	MySQL, SQLite, Firebase, MongoDB
<b>Operating Systems</b>	Windows, Linux
<b>Cloud and tools</b>	Google Cloud Platform, Google colab

### 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 and 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

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### 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

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- 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.