

# GOPALA BHAMIDIPATI

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## OVERVIEW

An enthusiast of software and technology, with a desire to use programming and problem-solving skills to tackle real-world challenges.

## EDUCATION

**UNIVERSITY COLLEGE LONDON**, London, UK

*Software, Artificial Intelligence and Data Engineering MSC*

2024 - 2025

- Includes Introduction to Machine Learning, Requirements Engineering and Software Architecture, Validation and Verification, Software Development Practice, Professional Practice, Applied Deep Learning, Engineering for Data Analysis

**QUEEN MARY UNIVERSITY OF LONDON**, London, UK

*Computer Science BSC - First Class Honours*

2021 - 2024

- Includes Object-Oriented Programming; Web Technology; Software Engineering; Algorithms and Data Structures; Big Data Processing; Neural Networks and Deep Learning, Distributed Systems, Database Systems, Information System Analysis

## EXPERIENCE

**QUEEN MARY UNIVERSITY OF LONDON**

London, UK

*Teaching Assistant*

September 2022 - December 2022

- Guided 50+ students in understanding Computer System and Network concepts such as binary representation, pattern recognition, CPU architecture, server architecture and assembly language.
- Enhanced communication skills by simplifying complex topics in a way foundational concepts could be grasped through tailored explanations and interactive engagement.

**BARCLAYS BANK**

London, UK

*Shadowing Intern*

July 2019 - July 2019

- Collaborated with cross-functional development teams working on low-latency trading applications.
- Gained insights into transformation of business requirements into actionable software development goals.
- Experienced process of software delivery, from development to final handover to stakeholders.

## PROJECTS

**VALENTINES FLOWER APPLICATION**

London, UK

*(Javascript, Html, Sassy CSS)*

December 2024 - December 2024

- Designed a visually appealing web application featuring personalized name integration and a beautifully animated flower with motion effects to create a unique, interactive experience.
- Designed a serene night-time sky theme with twinkling stars and a glowing moon, adding an immersive and calming aesthetic to experience.
- Utilized JavaScript and Sassy CSS to craft dynamic elements and fluid animations with smooth transition, ensuring a modern and engaging user interface and smooth performance across devices.

**PORTFOLIO WEBSITE**

London, UK

*(React, Javascript, Vanilla CSS)*

September 2024 - September 2024

- Created an interactive, responsive website using React for fast front-end development, focusing on providing a simple, user-friendly experience showcasing personal projects and skills amongst other sections.
- Utilized JavaScript and Vanilla CSS for dynamic features with a clean modern user-interface, ensuring cross-browser compatibility, enhanced user interaction and honed performances.
- Deployed website using Netlify, utilizing its CI/CD pipelines for efficient continuous integration and automated deployment, enabling seamless updates and maintaining optimal performance for end users.

**REDDIT SENTIMENT SUMMARIZER**

London, UK

*(Python, Django, Html, CSS, Javascript)*

September 2023 - June 2024

- Investigated effectiveness of modern technology, including natural language processing, to make online space better by filtering and detoxifying harmful content to protect users from spread of toxicity within Reddit social media platform.

- Devised a web application deploying machine learning tools, Vader and Pegasus-X, for sentiment analysis and text summarization, leveraging REST APIs for data mining from Reddit to summarize sentiments expressed across subreddits.
- Integrated Django into web application for process improvement by optimizing data handling and improving scalability for real-time sentiment analysis and text summarization.
- Implemented SQL in a database application to securely manage and protect users' personal details.
- Executed extensive testing from a scale of 1 to 5 to validate application's effectiveness in filtering negative sentiment, demonstrating its high accuracy and overall usability in moderating toxic content.

## **WEATHER APPLICATION GROUP PROJECT**

*(React, CSS, Google Firebase)*

London, UK

*January 2023 - June 2023*

- Led a team of 5 in an Agile environment to develop a weather forecast web application retrieving real time data from a public weather API.
- Operated Google Firebase for operations management and database application efficiently handling user data storage and enhancing application's backend to support real-time updates supporting up to 20 users.
- Conducted user surveys and applied data analytics to optimize the UI based on insights from user feedback.
- Assigned tasks strategically based on each team member's strengths, ensuring project was delivered with high-quality standards and met all deadlines.

## **SKILLS**

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- *Programming Languages:* Python, React, Java, C#, HTML, CSS, JavaScript, SQL, PHP
- *Frameworks:* React, Django
- *ML Tools:* PyTorch, TensorFlow, Pegasus-X, VADER Sentiment
- *Data Processing:* Pandas, NumPy, Matplotlib