

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 Honors

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

INTERNATIONAL FEDERATION OF RED CROSS AND RED CRESCENT SOCIETIES

London, UK

Software Engineer Intern

June 2025 - September 2025

- Integrate an AI-powered system into an existing infrastructure to extract and summarise key insights from emergency response reports across multiple workflows.
- Contribute to an open-source project aimed at developing AI-driven solutions that support real-time operational learning and critical decision-making during emergencies.
- Modernise legacy systems with AI technologies adopted by first responders worldwide, enhancing global emergency response effectiveness.

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 concepts, ensuring students with diverse learning backgrounds could grasp challenging material.

BARCLAYS BANK

London, UK

Shadowing Intern

July 2019 - July 2019

- Collaborated with 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 APPLICATION

London, UK

(JavaScript, SCSS)

October 2024 - October 2024

- Developed a versatile, animated web application using JavaScript for dynamic front-end logic and SCSS for theme based styling, smoothly transitioning from a heartfelt landing page with a personalized message ("Dear [Name]") into a dynamic nighttime flower-themed interface.
- Implemented smooth animations and transitions to enhance visual appeal and user engagement.
- Built custom components with modern JavaScript and clean SCSS, ensuring cross-browser compatibility and strong performance across devices.
- Deployed the application using Fly.io, leveraging edge hosting and CI/CD capabilities for fast, reliable global delivery.

PORTFOLIO WEBSITE

(React, JavaScript, Vanilla CSS)

London, UK

September 2024 - September 2024

- Created an interactive, responsive web application 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 optimized performances.
- Deployed the application using Netlify, leveraging its CI/CD capabilities for continuous integration and automated deployment, ensuring updates are seamlessly delivered to users.

REDDIT SENTIMENT SUMMARIZER

(Python, Django, HTML, CSS, JavaScript, SQL)

London, UK

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.
- Developed 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.
- Conducted 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.
- 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.

FITNESS APPLICATION

(C#, Windows Forms, SQL)

London, UK

September 2020 - June 2021

- Created an application providing custom workout routines backed by health metric analysis and deploying SQL for database management.
- Conducted user surveys to gather feedback on usability and features, informing improvements and personalized workout planning.

SKILLS

- *Programming Languages:* Python, Java, Go, C#, HTML, CSS, JavaScript, SQL, PHP
- *Frameworks:* React, Django
- *ML Tools:* PyTorch, TensorFlow, Pegasus-X, VADER Sentiment
- *Data Processing:* Pandas, NumPy, Matplotlib, Apache Spark, Hadoop
- *DevOps & Infrastructure:* Terraform, Ansible, NFS, BeeGFS, Prometheus, Grafana