GOPALA BHAMIDIPATI

16 Ash Grove, BR4 0QL
+44 7719 456 050 | bhamidipatig@gmail.com

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.

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

REDDIT SENTIMENT SUMMARIZER   London, UK
(Python, HTML, CSS, JavaScript, SQL, Django)   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   London, UK
(React.JS, HTML, CSS, JavaScript)   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 improving 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

FANTASY GAME   London, UK
(Java)   September 2021 - December 2021

- Devised an immersive, text-based fantasy game using object-oriented programming principles, allowing users to make dynamic choices influencing story progression throughout an interactive adventure

FITNESS APPLICATION London, UK
(C#, Windows Forms, Sql) September 2020 - June 2021
- Created an application providing custom workout routines backed by health metric analysis and deploying SQL for database management

SKILLS

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