

# Gopala Bhamidipati

07719456050 | [bhamidipatig@gmail.com](mailto:bhamidipatig@gmail.com) | <https://www.linkedin.com/in/gopalabhamidipati/>

## EDUCATION

<b>University College London</b>	Sep 2024 – Sep 2025
<i>MSc Artificial Intelligence and Data Engineering, Merit</i>	London, UK
<ul style="list-style-type: none"><li><b>Relevant Coursework:</b> Software Development Practice, Requirements Engineering and Software Architecture, Engineering for Data Analysis, Introduction to Machine Learning, Applied Deep Learning</li></ul>	
<b>Queen Mary, University of London</b>	Sep 2021 – Jun 2024
<i>BSc Computer Science, First Class Honours</i>	London, UK
<ul style="list-style-type: none"><li><b>Relevant Coursework:</b> Algorithms and Data Structures, Software Engineering, Object-Oriented Programming, Web Technology, Distributed Systems, Database Systems, Big Data Processing</li></ul>	

## SKILLS

- Languages:** Python, Java, Go, C#, SQL, PHP
- Frameworks/Web:** JavaScript, React, Django, HTML, CSS
- AI/Data:** Pandas, NumPy, Matplotlib, PyTorch, TensorFlow, Hadoop, Spark
- DevOps/Cloud:** Git, Docker, Kubernetes, Terraform, Ansible, BeeGFS

## EXPERIENCE

<b>AI Software Engineer</b>	Jun 2025 – Sep 2025
<i>International Federation of Red Cross and Red Crescent Societies</i>	London, UK
<ul style="list-style-type: none"><li>Engineered and deployed summarisation modules within the IFRC GO platform using Python, the Azure OpenAI SDK and prompt engineering techniques to extract and summarise insights from emergency reports.</li><li>Enhanced platform's capability to process large-scale unstructured data and support real-time operational learning and critical decision-making during humanitarian emergencies.</li><li>Reduced emergency report processing time from hours to minutes by integrating Azure OpenAI LLM flows into legacy systems, accelerating decision-making speed across global operations.</li></ul>	
<b>Teaching Assistant</b>	Sep 2022 – Dec 2022
<i>Queen Mary, University of London</i>	London, UK
<ul style="list-style-type: none"><li>Guided 50+ students in understanding Computer System and Network concepts such as binary representation and assembly language.</li><li>Enhanced student comprehension by simplifying complex computing concepts, ensuring accessibility for learners from diverse backgrounds.</li></ul>	

## PROJECTS

<b>Distributed Data Automation (Python, Terraform, Ansible, Spark, BeeGFS)</b>	Jan 2025 – Apr 2025
<ul style="list-style-type: none"><li>Provisioned a scalable distributed data processing pipeline across a 5-node cluster leveraging Terraform for infrastructure provisioning and Ansible for configuration management.</li><li>Applied Spark's Alternating Least Squares (ALS) algorithm to perform collaborative filtering and machine learning analysis, leveraging BeeGFS for high-throughput parallel file storage.</li><li>Deployed Prometheus and Grafana dashboards for real-time monitoring and system metrics visualisation.</li><li>Secured cluster access using SSH keys and implemented host-based firewall rules.</li><li>Achieved 35-hour continuous data processing with zero system downtime during load test.</li></ul>	
<b>Reddit Sentiment Summariser (Python, Django, HTML, CSS, JavaScript, SQL)</b>	Sep 2023 – Jun 2024
<ul style="list-style-type: none"><li>Developed an interactive web application for analysing Reddit content, implementing VADER for sentiment analysis and Pegasus-X for text summarisation, enabling toxicity detection across multiple subreddits.</li><li>Automated data mining through RESTful APIs, retrieving and processing 100+ Reddit posts per day.</li><li>Refactored a scalable Django backend, reducing API response latency by 30%.</li><li>Secured user data with SQL-based authentication and data storage workflows, ensuring robust access control.</li></ul>	
<b>Portfolio Website (React, JavaScript, SCSS)</b>	Sep 2022 – Sep 2022
<ul style="list-style-type: none"><li>Designed and launched a responsive, high-performance portfolio web application using React for fast front-end development.</li><li>Integrated JavaScript and SCSS for a dynamic UI, ensuring cross-browser compatibility and optimised performance.</li><li>Configured continuous integration and continuous deployment (CI/CD) using Netlify for automated updates.</li></ul>	