

Gopala Bhamidipati

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EDUCATION

University College London <i>MSc Artificial Intelligence and Data Engineering</i>	September 2024 – September 2025 London, UK
Queen Mary, University of London <i>BSc Computer Science, First Class Honours</i>	September 2021 – June 2024 London, UK

• **Relevant Coursework:** Software Development Practice, Requirements Engineering and Software Architecture, Engineering for Data Analysis, Introduction to Machine Learning, Applied Deep Learning

• **Relevant Coursework:** Algorithms and Data Structures, Software Engineering, Object-Oriented Programming, Web Technology, Distributed Systems, Database Systems, Big Data Processing

SKILLS

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

EXPERIENCE

AI Software Engineer <i>International Federation of Red Cross and Red Crescent Societies</i>	June 2025 – September 2025 London, UK
• Engineered and deployed Azure OpenAI-powered summarisation modules within the IFRC GO platform using Python to extract and summarise key insights from emergency reports across multiple workflows.	
• Enhanced platform's capability to process large-scale unstructured data and support real-time operational learning and critical decision-making during humanitarian emergencies.	
• 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.	
Teaching Assistant <i>Queen Mary, University of London</i>	September 2022 – December 2022 London, UK
• Guided 50+ students in understanding Computer System and Network concepts such as binary representation and assembly language.	
• Enhanced student comprehension by simplifying complex computing concepts, ensuring accessibility for learners from diverse backgrounds.	

PROJECTS

Distributed Data Automation (<i>Python, Terraform, Ansible, Spark, BeeGFS</i>)	January 2025 – April 2025
• Provisioned a scalable distributed data processing pipeline across a 5-node cluster leveraging Terraform for infrastructure provisioning and Ansible for configuration management.	
• Applied Spark's Alternating Least Squares (ALS) algorithm to perform collaborative filtering and machine learning analysis, leveraging BeeGFS for high-throughput parallel file storage.	
• Deployed Prometheus and Grafana dashboards for real-time monitoring and system metrics visualisation.	
• Secured cluster access using SSH keys and implemented host-based firewall rules.	
• Achieved 35-hour continuous data processing with zero system downtime during load tests.	
Portfolio Website (<i>React, JavaScript, SCSS</i>)	September 2024 – September 2024
• Designed and launched a responsive portfolio web application using React for fast front-end development.	
• Integrated JavaScript and SCSS for a dynamic UI, ensuring cross-browser compatibility and optimised performance.	
• Configured continuous integration and automated CI/CD deployment using Netlify.	
Reddit Sentiment Summariser (<i>Python, Django, HTML, CSS, JavaScript, SQL</i>)	September 2023 – June 2024
• 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.	
• Automated data mining through RESTful APIs, retrieving and processing 100+ Reddit posts per day.	
• Refactored a scalable Django backend, reducing API response latency by 30%.	
• Secured user data with SQL-based authentication and data storage workflows, ensuring robust access control.	