Gopala Bhamidipati

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EDUCATION

University College London Sep 2024 – Sep 2025
MSc Artificial Intelligence and Data Engineering, Merit London, UK

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

Queen Mary, University of London Sep 2021 – Jun 2024
BSc Computer Science, First Class Honours London, UK

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

SKILLS

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

EXPERIENCE

AI Software Engineer Jun 2025 – Sep 2025
International Federation of Red Cross and Red Crescent Societies London, UK

- Engineered and deployed LLM-driven summarisation pipelines within the IFRC GO platform using Python and Azure OpenAI to process unstructured emergency reports at a global scale
- Reduced emergency report processing time from hours to minutes, accelerating decision-making and enabling real-time operational learning across international response teams
- Built scalable data ingestion workflows, modernising legacy systems to improve response efficiency and reduce information redundancy

Teaching Assistant Sep 2022 – Dec 2022
Queen Mary, University of London London, UK

- Guided 50+ students in understanding Computer Systems and Networks concepts such as binary representation, CPU architecture and assembly language
- Improved student performance by breaking down complex computing concepts, ensuring accessibility for learners from diverse backgrounds

PROJECTS

Distributed Data Automation (*Python, Terraform, Ansible, Spark, BeeGFS)* Jan 2025 – Apr 2025

- Designed and provisioned a scalable distributed data processing pipeline across a 5-node cluster using Terraform for infrastructure provisioning and Ansible for configuration management
- Achieved 35-hour continuous data processing with zero system downtime during sustained load testing
- Implemented Apache Spark's collaborative filtering using Alternating Least Squares (ALS) algorithm, leveraging BeeGFS for high-throughput parallel file storage and I/O-intensive workloads
- Secured cluster access using SSH key-based authentication and host-based firewall configuration
- Deployed Prometheus and Grafana for real-time cluster monitoring and system metrics visualisation

Reddit Sentiment Summariser *(Python, Django, HTML, CSS, JavaScript, SQL)* Sep 2023 – Jun 2024

- Developed an interactive web application for analysing Reddit content, implementing VADER for sentiment analysis and Pegasus-X for text summarisation 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

Portfolio Website *(React, JavaScript, SCSS)* Sep 2022 – Oct 2022

- Built and deployed a responsive portfolio web application using React, JavaScript and SCSS, ensuring cross-browser compatibility and optimised performance
- Configured continuous integration and continuous deployment (CI/CD) using Netlify for automated updates