

Gopala Bhamidipati

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EDUCATION

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

EXPERIENCE

AI Software Engineer <i>International Federation of Red Cross and Red Crescent Societies</i>	June 2025 – September 2025 London, UK
<ul style="list-style-type: none">Engineered and deployed a scalable AI-powered system using Python into an existing infrastructure to extract and summarize key insights from emergency response reports across multiple workflows.Contributed to an open-source project aimed at developing AI-driven solutions that support real-time operational learning and critical decision-making during emergencies.Reduced emergency report processing time from hours to minutes by integrating AI models into legacy systems, improving decision-making speed across global operations.	
Teaching Assistant <i>Queen Mary, University of London</i>	September 2022 – December 2022 London, UK
<ul style="list-style-type: none">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 (Python, Terraform, Ansible, Spark, BeeGFS)	January 2025 – April 2025
<ul style="list-style-type: none">Provisioned a scalable distributed data processing pipeline across a 5-node cluster using Terraform for infrastructure provisioning and Ansible for configuration management.Applied Spark's 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 visualization.Secured cluster access using SSH keys and implemented host-based firewall rules.Enabled 35-hour continuous data processing with zero system downtime during load tests.	
Portfolio Website (React, JavaScript, SCSS)	September 2024 – September 2024
<ul style="list-style-type: none">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 optimized performances.Configured continuous integration and automated CI/CD deployment using Netlify.	
Reddit Sentiment Summarizer (Python, Django, HTML, CSS, JavaScript, SQL)	September 2023 – June 2024
<ul style="list-style-type: none">Developed a full-stack web application to analyze and summarize Reddit content using VADER for sentiment analysis and Pegasus-X for text summarization, enabling real-time toxicity detection across subreddits.Automated data mining through RESTful APIs, retrieving and processing over 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.	

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