

KITHMINI JOSEPH

Computer Science & Artificial Intelligence BSc | University of Bath

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SUMMARY

Creative, proactive and technically skilled Computer Science and AI student at the University of Bath, with strong industry experience at IBM and Infosys and a broad skillset across devops, software development, data engineering and AI model development. Driven by a curiosity for continuous learning and actively prototyping personal tech projects, exploring new tools and frameworks. Thrives in fast-paced environments where analytical problem solving, adaptability and collaboration are catalysts of growth. Actively seeking graduate opportunities to contribute meaningfully and develop skillsets across impactful projects.

EXPERIENCE

Data Engineering Summer Intern Infosys

- 07/2025 - 09/2025 | London, United Kingdom
- Engineered scalable data pipelines and analytics workflows on Google Cloud Platform using **BigQuery**, **Cloud Storage** and **Vertex AI Pipelines** for **KPI forecasting** and efficient processing of large-scale workforce management databases
 - Developed interactive **Looker** dashboards and automated insights for business stakeholders by leveraging **SQL**, **Python**, and **shell scripting**, integrating **LLMs** to enhance data summarisation and anomaly detection

Software Engineering 12 Month Placement Intern IBM

- 07/2024 - 07/2025 | Winchester, United Kingdom
- Automated infrastructure provisioning and container orchestration across hybrid environments with **Azure Kubernetes Service (AKS)**, **RedHat OpenShift** and **Docker**, working closely with advanced cluster configurations and virtual machines
 - Reduced infrastructure usage by 12TB through automated artifact storage optimisation, leveraging **Artifactory APIs**, **IBM Cloud** and **Grafana** monitoring
 - Designed and expanded **Jenkins** deployment pipelines for system wide migrations and new product features utilising **Jinja**, **Ansible** and **Groovy**
 - Shadowed IBM Research's Prithvi WXC team in collaboration with STFC and NASA, working with **AWS S3** and NetCDF weather data while exploring zero-shot learning (ZSL)
 - Lead an initiative for an internal transport booking app prototype, utilising **Slack API**, **Spring Boot**, **MongoDB** and **React**, presenting to the senior leadership team
 - Prevented critical bugs in **QA testing** and delivered timely project fix-packs

Scientific Computing and Particle Physics Intern Science and Technology Facilities Council (STFC) & CERN

- 07/2021 - 08/2021 | London, United Kingdom
- Resolved critical system bugs in **CERN's Athena Software Framework (ATLAS experiment)** to enable accurate system report generation for PerfMonMTSvc (Performance Monitoring Service), working with Python in Jupyter notebooks
 - Learnt about Z-boson production and synchrotron technology within the Large Hadron Collider and gained hands on experience in **data analysis**

Tutor The Teenage Tutor

- 03/2021 - Present | Remote
- Delivered **600+ hours of advanced tutoring** in Computer Science, Maths, Further Maths, and Sciences, enabling students to achieve top grades (7-9) in GCSEs, 11+, and private school entrance exams

EDUCATION

Computer Science & Artificial Intelligence BSc Hons

University of Bath

2022 - 2026

- Reinforcement Learning
- Natural Language Processing
- Game Theory
- Principles of Programming
- System Architecture
- Advanced Computer Vision
- Machine Learning

Bath Hackathon 2023 Winners

Embedded systems track sponsored by XMOS Technology

(devpost.com/kithminijoseph for full details)

A-Levels Newstead Wood School

2020 - 2022

- Maths (A), Computer Science, Further Maths, Physics

PROJECTS

Personal Portfolio Website www.kithminijoseph.com [GitHub](#)

- Designed and developed a scrollable, responsive portfolio site using **React**, **Tailwind CSS** and **JavaScript**.
- Integrated light/dark mode with **state persistence** and a dynamic project carousel, deployed on **Vercel**

Full-Stack E-Commerce Website www.miniscakes.com [GitHub](#)

- Developed a responsive, dynamic e-commerce platform for custom cake ordering using **React**, **Tailwind CSS**, **Node.js**, **MongoDB** and **Express**, hosted on **Vercel** and **Railway**.
- User authentication and encryption with **JWT** and **bcrypt**.
- Enabled persistent shopping baskets for registered users and **localStorage** caching for guest sessions.
- Integrated cloud storage for managing and serving product images.

Real-time Image Recognition Recycling Classification App [GitHub](#)

- Fine tuned and trained a **ResNet18 CNN** model using Kaggle open image datasets of recyclable items.
- Local gamified app created in **TypeScript** with **Expo** and **React Native** and user accounts and input images stored in **SQLite DB**