

LAVISH KAMAL KUMAR

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EDUCATION

MSci Computer Science (Hons), King's College London, Predicted **1st** Expected June 2026

Data Structures Software Group Project Database Systems Associate of King's College London

A-levels, Dormers Wells High School: Maths **A***, Computer Science **A**, Physics **A** August 2021

SKILLS

Programming & Development: Python, Java, Django, Flask, JavaFX, Tkinter, Unity, Redis, Git, Agile

Web, Cloud & Specialised: HTML, CSS, AWS S3 & CloudFront, Azure SWA & Functions, Robot Operating System (ROS)

EXPERIENCE

IBM — Knowledge Exchange Project October 2024 - Present

- Dissertation Topic: "Leveraging Gen-AI and ML for Actionable Insights with IBM Instana".

DBridge — Software Engineer September 2024 - Present

- Prototyped a data-aggregation and insights API using Redis, Python and Java with JavaFX.

King's College London — Research Internship July 2024 - October 2024

- Research Topic: "Edge Computing for Enhanced XR Experiences in Resource-Constrained Environments".
 - Developed and published a PyPI library for Reinforcement Learning: [mab-algo PyPI](#), [GitHub](#).
 - Conducted quantitative research to assess the effectiveness of this strategy on the HoloLens 2.

Allenby Heating and Plumbing — Software Engineer Intern May 2024 - September 2024

- Developed a route planner Windows app using Python, Tkinter, Google Geocoding and Radar API.
 - Created a URL shortening service using Redis and Flask, saving 50% on route-related messaging costs.
- Redeveloped website using Figma, HTML, CSS and JavaScript, increasing average session duration by 150%.
 - Deployed website on Azure Static Web Apps, and used Azure Functions to process form submissions.
 - Integrated Cloudinary for media management and Lapentor for interactive tours.

Independent Apparel Business — Founder June 2021 - June 2024

- Ran a successful apparel business for three years, generating £20k+ in revenue.

Royal Botanic Gardens, Kew — Volunteer Youth Explainer January 2017 - December 2018

- Designed and created board games to simplify complex plant science concepts, engaging with over 100 members of the public each weekend through interactive group sessions.

PROJECTS

Student Records System Data Harmonisation: Python, Django, HTML, CSS

- Collaborated with a team of nine to develop a web application to aggregate and provide insights on student data.
- Programmed the bulk email queuing and tracking system, managing queues of up to 2,000 emails with 95% test coverage.

Team Management Web App: Python, Django, HTML

- Designed a team member invitation and acceptance system using the MVT pattern, with over 90% unit test coverage.

Rule Break Detection in Robot Simulated Environment: Python, ROS, OpenCV & YOLO

- Programmed a robot for autonomous navigation and concurrent animal detection.
- Gained experience in real-time processing, concurrent programming within ROS and the Publish/Subscribe model.

AWARDS & LEADERSHIP

- **Dean's Commendation** — King's College London July 2022 & July 2024
- **Best Learner Award** — Royal Botanic Gardens, Kew January 2017 - December 2018
- **Technology Lead - Full Stack** — EdTech for Law Startup September 2024 - Present