

# KABIR GHAI

## Software Engineer

📞 07397 162527

🌐 <https://www.linkedin.com/in/kabirsghai/>

@ [kabir.ghai@icloud.com](mailto:kabir.ghai@icloud.com)

📍 London, England

🔗 [github.com/cypherguy](https://github.com/cypherguy)

## SUMMARY

Computer Science undergraduate specialising in AI and backend systems, with a strong foundation in Data Structures and Algorithms, and software architecture and principles. I focus on building scalable systems and shipping real-world products, ensuring robust architectures, and having clean, maintainable code.

## EXPERIENCE

### Flagstone (London, England)

📅 08/2024 - 08/2024

- Helped increase Azure project efficiency by applying new workflow insights from shadowing a Senior Engineer
- Contributed to team discussions and meetings, deepening understanding of enterprise-level backend systems and deployment strategies
- Conducted a detailed £200,000 ad-spend analysis and presented strategic budget allocations to senior stakeholders with other interns, improving data-driven decision-making skills

### Bright Young Things Tuition (London, England)

📅 10/2019 - 11/2023

- Founded, organised and led two Computer Science Summer Schools, teaching programming fundamentals to 20 children aged 10-13
- Promoted to Centre Supervisor within a year for exceptional performance, volunteering contributions, and high student achievement across 70+ learners
- Collaborated with other tutors to devise individual student plans for over 100 students, with weekly feedback sessions

## PROJECTS

### QueryWhisperer

📅 03/2025 - Present

🌐 <https://querywhisperer.up.railway.app> | [github.com/CypherGuy/QueryWhisperer](https://github.com/CypherGuy/QueryWhisperer)

Developed and deployed an MVP for a web-based assistant that converts natural language into executable SQL queries using live schema context. The system features secure authentication, database persistence, and a modular interface for integrating Large Language Models.

- Designed and deployed the backend using FastAPI, SQLAlchemy, and PostgreSQL with secure session-based authentication and user management
- Improved SQL query accuracy by over 20% by implementing a schema-aware text-to-SQL pipeline with dynamic metadata injection
- Deployed the service using Railway with environment-specific configurations and persistent cloud-hosted PostgreSQL
- Built a React frontend for schema input and query submission, with plans for full UI/UX expansion and query preview

### InboxPilot

📅 06/2025 - 07/2025

🌐 <https://www.inboxpilot.xyz> | <https://github.com/CypherGuy/InboxPilot>

Built a serverless email triage platform powered by AWS services and natural language filtering.

- Designed a serverless backend using AWS SES, Lambda, S3, and DynamoDB, enabling automated processing and storage of incoming emails
- Integrated an AI-powered natural language filter using AWS Bedrock, allowing flexible queries like 'Follow-ups on sales emails this week', with optional auto-reply logic
- Built a Next.js frontend with grid/table view, real-time filtering, search, and secure cookie-based sessions
- Implemented LLM-based tagging to streamline high-volume email triage
- Prioritised modularity and deployability, enabling future integrations with custom inbox rules, user profiles, and automated replies

## ACHIEVEMENTS



A-Level Scholarship



Awarded 1st place in my university's Advent of Code 2024



Four successful hackathon projects



Founded multiple Summer Coding Camps



Became a Centre Supervisor within a year

## TECHNICAL & SOFT SKILLS

### Languages & Tools

Python, Java, SQL, JavaScript, Git, Azure, Docker, PostgreSQL, Railway, NumPy/Pandas, TensorFlow, Keras

### Frameworks

LangChain, Streamlit, PySide, FastAPI, React, Next.js, SQLAlchemy,

### Hard & Soft Skills

OOP, NLP, Test-driven development, Teamwork, Communication, Leadership, Time Management

## EDUCATION

### Computer Science with AI

#### The University of Kent

📅 09/2023 - Present

- Year 2: First Class
- Year 1: First Class

### A Levels

#### The John Lyon School

📅 09/2021 - 09/2023

- Maths, Computer Science, Economics

### GCSE's

#### The John Lyon School

📅 09/2016 - 09/2021

- 9 GCSEs Including Mathematics and Computer Science at A\*

## REFERENCES

Available upon request