KABIR GHAI

Software Engineer

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SUMMARY

Computer Science undergraduate specialising in AI and backend systems, with a strong foundation in Data Structures and Algorithms, and software architecture and principles, with additional exposure to enterprise infrastructure and security through an MSP internship (Azure AD, M365, Conditional Access, backups). I focus on building scalable systems and shipping real-world products, ensuring robust architectures, and having clean, maintainable code.

EXPERIENCE

Twin Technology (Watford, England)

📅 07/2025 - 10/2025

- Delivered frontline support at a Managed Service Provider, resolving 80+ client issues across Outlook, Teams, licensing, and on-prem infrastructure
- Managed user identity and access: performed password resets via Domain Controller, set up MFA for over 30 people, and made user accounts across hybrid environments via the tenant admin portal
- Configured Conditional Access Policies in Azure Active Directory to allow remote access, keeping Zero Trust and security compliance across tenants
- Monitored and verified daily backups across 100+ systems using Datto, Veeam, and ScreenConnect to ensure client data integrity and recovery readiness

Flagstone (London, England)

📅 08/2024 - 08/2024

- Applied new workflow insights gained from shadowing a Senior Software Engineer, increasing Azure project efficiency
- Attended and spoke at 5 team discussions and meetings regarding enterprise-level backend systems and deployment strategies
- Improved data-driven decision making skills by analysing a detailed £200,000 ad-spend strategy and presented strategic budget allocations to senior stakeholders with other interns

PROJECTS

QueryWhisperer

📅 03/2025 - Present

🔗 https://querywhisperer.up.railway.app | 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**
- 💎 **2nd / 1st in my university's Advent of Code 2023 / 2024**
- 💎 **Four successful hackathon projects**
- 💎 **Founded multiple Summer Coding Camps**
- 💎 **Became a Centre Supervisor within a year**

TECHNICAL & SOFT SKILLS

Software Engineering Languages and Tools

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

Backups & Microsoft 365 technologies

Azure Active Directory, Microsoft 365 Administration, Conditional Access Policies, Domain Controllers, ScreenConnect, Veeam, Datto, ConnectWise

Hard and Soft Skills

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

Frameworks

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

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