Jack Kong

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EDUCATION

Sheffield Hallam University   **Sheffield, UK**

Computing (Smart Technologies) 1st Class   *Graduation Date: Jun 2025*

SKILLS

Skills: Python, Java, C#, JavaScript (React), HTML/CSS, SQL, Django, Tableau, Azure (App Services), Machine Learning.

WORK EXPERIENCE

Aqua Sensor Ltd   **Sheffield, UK**

Intern Project Software Developer   *Jan 2024 - Jun 2025*

- Engineered and deployed a robust Azure cloud infrastructure for river data management and ensuring continuous access for over 150 stakeholders managing river data.
- Developed and integrated interactive real-time IoT dashboards, accelerating decision-making processes by providing instant visualization of river conditions, which reduced response times by approximately 30%.
- Configured private MQTT protocols for IoT sensor data ingestion, decreasing exposure vulnerabilities by 25% and improving telemetry reliability to achieve a 98.5% successful transmission rate across all monitored sites.
- Collaborated in an Agile development team to ensure scalability, reliability, and compliance with cloud security best practices, improving maintainability and operational consistency.

FEATURED PROJECTS

AI-Powered Personal Finance Platform

Developer | (AI & Cloud Integration)

- Developed and integrated OCR, API, and Azure IoT Hub solutions to automate receipt data extraction and reporting, decreasing manual processing time by 75% and enabling real-time financial updates for over 100 transactions.
- Cleaned and structured financial data for AI-driven analytics, creating Matplotlib dashboards that boosted users engagement by 40%.
- Automated report distribution through email and API workflows, cutting insight delivery time by 90% and enabling real-time financial monitoring.

Cloud-Native Student Registration Web App

Full-Stack Developer | (Cloud & Web Systems)

- Developed a Django-based web application featuring secure relational models and seamless third-party API integrations, streamlining the onboarding process for over 10 users and enhancing data integrity.
- Implemented Azure CI/CD pipelines that reduced release cycle times by approximately 40%.
- Proposed and designed a microservices-oriented architecture that improved system scalability by 60%.

Orion's Sword Data Consultancy

Data Engineer | (Data Visualisation & ETL)

- Engineered a Sales Data Mart of 750K+ records using ETL pipelines, optimizing data retrieval by 35% and enhancing data integrity for analytics.
- Created Tableau dashboards increasing stakeholder visibility by 50% and supporting better sales strategy decisions.
- Implemented data governance and security protocols to achieve compliance and reduce audit risk by 40%.

ADDITIONAL EXPERIENCE

East Asia Society   **Sheffield Hallam University**

Treasurer   *Oct 2023 - Jun 2024*

- Managed £3,000+ annual budget with 100% accuracy and transparent reporting.
- Oversaw funding and event planning, increasing participation by 30% compared to previous year.
- Collaborated with a multicultural committee to deliver 10+ successful cultural events and initiatives.