Jack Kong

jackkongjack@gmail.com | (+44) 7853 761 808 | www.linkedin.com/in/jack-kong-02b73b240 |
https://github.com/jack-kong03 | https://jack-kong03.github.io/Jack-Kong-Portfolio

PROFILE

First Class Computing (Smart Technologies) graduate with hands-on software engineering, data, AI/ML, and cloud experience across academic projects and an Azure-focused IoT internship . Skilled in building end-to-end applications that automate data workflows, generate actionable insights, and scale in cloud environments using Python, Django, React, and Azure services . Seeking Junior Software Engineer or Cloud Developer roles to apply a strong delivery mindset, collaborative problem-solving, and secure-by-design practices in modern engineering teams.

EDUCATION

BSc (Hons) Computing (Smart Technologies) – First Class Honours, Sheffield Hallam University, UK (2025)

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C#, JavaScript, HTML5/CSS3, Bash .
- **Frameworks & Tools:** Django, React, Docker, Git, Tableau, CI/CD, NodeRED, RaspberryPie, Adruino .
- **Cloud & Data Platforms:** Microsoft Azure (App Services, IoT Hub, Blob Storage, VMs), SQL, MySQL .
- **AI & Data Science:** TensorFlow, Pandas, NumPy, scikit-learn, Matplotlib, PyTorch .

WORK EXPERIENCE

Project Intern Cloud Engineer, AQUA-Sensor — Jan–Jul 2024

- Engineered and deployed secure Azure cloud infrastructure for river data management, improving data security, availability, and stakeholder access to time-critical information .
- Developed interactive real-time dashboards to visualize river conditions and trends, enabling faster, data-driven decisions by end users .
- Configured private MQTT protocols to harden IoT data ingestion between sensors and cloud, reducing exposure and ensuring reliable telemetry .
- Collaborated across functions to uphold scalability, reliability, and cloud/IoT best practices, improving maintainability and operational consistency .

KEY PROJECTS

AI-Powered Personal Finance Platform — Developer

- Automated receipt data extraction and reporting via OCR, APIs, and Azure IoT Hub, reducing manual processing effort substantially .
- Cleaned and structured data with OpenAI API and generated Matplotlib dashboards for actionable personal finance insights .
- Achieved roughly 90% faster reporting through automated email generation, accelerating insight delivery cycles

Data Management Consultancy (Orion's Sword) — Data Engineer

- Designed a Sales Data Mart with 750K+ records and built ETL pipelines to consolidate and model key commercial entities .
- Created Tableau dashboards for customer and product analytics, improving visibility and supporting decision-making .
- Recommended data governance enhancements to strengthen security and compliance across the stack .

Cloud-Native Student Registration Web App — Software Engineer

- Built a Django application with secure relational models and third-party API integrations for a robust registration workflow .
- Implemented CI/CD on Azure, cutting release times by approximately 40% and improving deployment reliability .
- Proposed a microservices-oriented design to improve scalability and service resilience under variable load .