AKSHAY PAL

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Experience

BAE Systems Digital Intelligence   Sept 2022 – present

Software Engineer

- **Client Project #2:**
  - **Developed critical national infrastructure** using **Spring Boot and React Typescript**.
  - **Utilised test-driven development (TDD)** to minimise bugs and streamline debugging, ensuring a **minimum test coverage of 90%** across all microservice repositories.
  - **Led complex deployments** to not-prod and prod environments, **trained colleagues** on the deployment process to **increase resource availability** and **deployment frequency**.
  - **Automated the defect investigation process** by writing reusable Python scripts for data retrieval in Elastic, **improving productivity** and **reducing defect resolution time**.
  - **Collaborated effectively** with engineers across **multiple product teams** to develop and integrate microservices for cross-product interfacing.
- **Client Project #1:**
  - **Junior Software Engineer and Architect** on a **large-scale AWS cloud migration** project, focusing on **lift-and-shift strategies**.
  - **Reviewed and enhanced deployment scripts** to ensure a smooth transition from on-premises to cloud, reducing costs of a critical government application.
  - **Developed a KPI dashboard** in Power BI to visualise data processing changes between builds, aiding key stakeholders in **identifying improvement areas** and **prioritising work**.
  - **Conducted data analysis** and **application improvement** using Python, **addressing, and reducing defects** raised due to poor data quality.
  - Unfortunately, **project ended after six months due to funding issues**, limiting the opportunity to implement code changes and quantify enhancements to deployment scripts and processes.

Certifications

- AWS Certified Cloud Practitioner – *Amazon Web Services*
- Foundational C# with Microsoft – *Microsoft*
- Data Analysis with Python – *freeCodeCamp*

Skills

Programming Languages: Java, Python, JavaScript, TypeScript, C#
Frameworks and Libraries: React, Spring Boot
Tools and Technologies: Git, Linux, Kubernetes, Docker, Drone, Kafka, Jira, Confluence
Databases: PostgreSQL, Elastic, Amazon Athena
Cloud Platforms: AWS
Development Methodologies: TDD, Agile, Scrum

Education

University of Sussex

Master of Science (MSc) in Quantum Technology Applications and Management

- Grade – in progress

St. Hilda's College, University of Oxford

Master of Engineering (MEng) in Engineering Science

- Grade – Upper Second Class (2.1)
- Thesis: An Imaging Informed Mathematical Model of Tumour Growth (74)

Website

You can learn more about me, and about personal projects I have built on my portfolio website here!