# 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

- Java 17 Certified Developer – *Oracle*
- 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)