TIHOMIR STEFANOV

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PROFILE

Innovative, collaborative and motivated software engineer with two years experience in enterprise backend systems. Seeking a role where high-quality software development standards are valued, and creation of well-designed, maintainable and reliable products build upon modern technologies.

WORK EXPERIENCE

Technology Graduate Engineer, American Express, London (UK)   **Sep 2023 – Present**

- Working on microservice self-check pod healing Java library using **log data from Splunk and Dynatrace** to determine pod restart criteria. Aim is to be **implemented across 40+ production services and reduce latency.**
- Worked on the automation of **processing 1.5mil cardmember accounts** and creating inactive accounts report per bill cycle using **Java lambda expressions, Spring Boot ORM with MongoDB, AWS S3Bucket and Apache Camel producer templates**, **reducing processing time from a day to ≈5 seconds**.
- Volunteered to be part of the **Production Support Team**, helping resolve day to day issues such as **certificate renewals and connectivity issues** as well as **responding to other teams on raised incidents**.
- Taking part in the **Tech Grad/Intern buddy program** to integrate grads and interns to the company and help them make connections and speak to senior engineers and engineering directors.

Information Technology Summer Intern, American Express, London (UK)   **Jun – Sep 2022**

- Integrated and deployed a data migration prototype from a legacy **Java system to a new Kotlin-based using Spring Cloud Services, Docker and Kafka**. Presented a **10 minute** demo to **2 VPs** and **20+ engineers.**
- The automation of the client data onboarding process **reduced processing time by ≈30%.**

Spring Immersion Program Intern, American Express, London (UK)   **Apr – May 2022**

- Developed the back-end system for the Open-Banking API AMEX website using **Kotlin and Spring Boot and H2 database** which communicated with a **React-based front-end**.
- **Improved the available functionalities of the website** creating a mocking service to each of the APIs by generating a **Swagger document** inside the front end of the application using **Swagger-UI API**.

Software Engineering Intern, Dreamix, Sofia (BULGARIA)   **Jul – Oct 2021**

- Contributed to an in-house project by **refactoring the UI and backend architecture of a vacation tool** by migrating to Spring Boot in the backend for DB management and Angular integration in the Front-End.
- Gained core knowledge in **Servlets, JSP, JDBC and design patterns** and created a proof-of-concept RESTful Issue Tracking System using **Java with Spring Boot and Angular** connected to **Postgres DB**.

EDUCATION

BSc (Hons) Computer Science, Kings College London University (UK)   **Sept 2020 – Aug 2023**

- Grade: **First Class Honours ≡ 4.0 GPA**
- Dissertation: **Evaluating Machine Learning models for football predictions:**
  - Evaluated **3 regression and 3 classification** machine learning models for predicting football games using **scikit-learn, pandas and Matplotlib Python libraries**.
  - Enhanced the ML model accuracies up to **5%** by creating a dynamic machine learning pipeline which included **domain specific data, specific hyperparameter tuning and time series K-Fold Cross Validation**.
- **Led practicals** for CS students studying DBMS Systems during **second and third year as a teaching assistant**.

PROGRAMMING SKILLS AND TECHNOLOGIES

- **Programming languages**: Java, Kotlin, Python, JavaScript
- **Frameworks & Libraries**: Spring Boot, Mockito, JUnit, AWS S3, ReactJS, SciKit-learn, Pandas
- **DBMS & Messaging**: SQL, PostgreSQL, MongoDB, Firebase, Kafka, Apache Camel, Linux Servers, Redis
- **DevOps**: Helm, Docker, Linux, Google Cloud
- **Monitoring:** Dynatrace, Splunk, Jenkins, Dot Connector, SonarQube
- **Other**: Maven, Gradle, Git, Postman, Swagger, Rally, Jira, Bash, LaTeX

ADDITIONAL QUALIFICATIONS

The Intrapreneurs club, London (UK)   **Jan – Jun 2022**

- Attended an accelerator programme fully funded by American Express containing **technical and professional masterclasses ,and mentoring sessions** from which I received a summer internship offer as a **Technology Intern**.