Stephan Kostov

stephank179@gmail.com ❖ (+44) 7446903000 ❖ github.com/stephankostov ❖ Edinburgh, Scotland

A diligent and forward-thinking team-player with a comprehensive set of problem-solving and analytical skills. These were developed through experience in engineering both software and mechanical, along with a core data skillset through an MSc in Data Analytics. Most recently I've had the opportunity to take a sabbatical break from work to build competence in all things AI through courses, textbooks, and AI-agent development projects. With these skills I am now wholeheartedly committed to contribute in the fascinating and exciting field of AI.

EDUCATION

University of Glasgow   **September 2020 - June, 2021**
MSc Data Analytics (1st Class)   *Glasgow, Scotland*
- Relevant Classes: Statistics, Bayesian Statistics, Probability, Data Analysis, Deep Learning for Big Data, Machine Learning, Application Development.
- Project: Dissertation in "Predicting Astrophysical Properties of Stars" through Statistical and Machine Learning modelling.

University of Strathclyde   **September 2015 - May, 2020**
BEng Mechanical Engineering (1st Class)   *Glasgow, Scotland*
- Core Projects:
    - Dissertation in "Optimising Space Flight Trajectories" through an exploration and tuning of the state-of-the-art computation optimisation algorithms.
    - Design and Manufacturing of a model drag racer car in a team of 5.
- Competing in the University Men's Basketball 1st team (division 1).

WORK EXPERIENCE

Sky Group Ltd   **April. 2021 – December 2022**
DevOps / Software Engineer   *Livingston, Scotland*
DevOps Infrastructure Responsibilities:
My main responsibilities as the DevOps engineer for a scrum team was to manage the deployments and infrastructure around the software development lifecycle.
- Service Deployment
    - Orchestrated seamless deployments of team's services, ensuring continual availability and reliability.
    - Proficiency in service containerisation using Kubernetes to host Dockerised Images.
    - Configuring and managing legacy services on Linux.
- Monitoring and Metrics
    - Implementing Prometheus performance metrics pipelines into InfluxDB.
    - Designing interactive dashboards with Grafana for real-time time-series data visualisation.
- Log Storage
    - Implementing readable logging using ElasticSearch.
    - Leveraging Apache Kafka message queues for robust log storage.
- CI/CD Deployment Pipelines
    - Streamlining software deployment pipelines using Jenkins and Gitlab, ensuring reliable hands-off deployments.
    - Automating testing, integration, and production workflows.
- Server Setup
    - Proficiently managed both Unix and Windows servers, optimising for performance and security.

Chatbot Development Project:
In addition to my DevOps responsibilities, I also completed a development project to provide a foundation for further automations for our support team.
- Developed an internal chatbot application for Slack and Microsoft Teams.
- Chatbot served as a core platform to add automations for the support team's requests.
- Built in Javascript from scratch following test-driven development and functional programming paradigms.

Hong Kong Polytechnic University (IAESTE Internship Program)   **June 2020 – August 2020**
Aeronautical Engineering Intern   *Hong Kong*
- Assisting a research team in investigating aerofoils by computationally simulating their physical hydro-tunnel experiments for use in an academic paper.
- Presentation of internship experience to colleagues, university board members, and internship program staff.

ADDITIONAL COURSES AND LEARNING

- **FastAI: Practical Deep Learning Foundations**   **February 2023 - May 2023**
    o Course on the foundations of deep learning, and the state-of-the-art models.
- **FDM Software Development Graduate Program**   **November 2020 - April 2021**
    o Training course in full-stack OOP with Spring Boot Java and React, also including separate weeks for each SQL, Python, and Unix.

TECHNICAL SKILLS

- **Programming:** Python, Javascript, Bash, HTML/CSS, R, Java, Groovy, MATLAB
- **Data Science:** PyTorch, NumPy, Pandas, Huggingface
- **Data Visualisation:** Matplotlib, Pandas, R, Grafana
- **Statistics:** Regression, Classification, Clustering
- **Web Development:** React, Spring Boot
- **Infrastructure Technologies:** Unix, Jenkins, Docker, Kubernetes, Kafka, ElasticSearch, Prometheus, Azure
- **Databases:** Oracle SQL, InfluxDB, MongoDB

INTERESTS

- Basketball, Rock Climbing, Videogames, Piano, Reading, Cooking, Skiing, Travel