

# Stephan Kostov

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A diligent and forward-thinking team-player with a comprehensive set of problem-solving skills. These were developed through my background 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 learn all things data through courses, textbooks, and [ML development projects](#). With these skills I am now wholeheartedly committed to contribute toward the fascinating and exciting data world.

## EDUCATION

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### 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

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### 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

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- **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

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- **Programming:** Python, Javascript, Bash, HTML/CSS, R, Java, Groovy, MATLAB
- **Machine Learning:** PyTorch, NumPy, Huggingface
- **Data Visualisation:** Matplotlib, Pandas, R, Grafana
- **Data Engineering:** Pandas, Dask, Apache Spark, Apache Beam
- **Web Development:** React, Spring Boot
- **Infrastructure Technologies:** Unix, Jenkins, Docker, Kubernetes, Kafka, ElasticSearch, Prometheus, Azure
- **Databases:** Oracle SQL, PostgreSQL, InfluxDB, MongoDB, BigQuery

## INTERESTS

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