Alexander Smerdon

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Experience

Software Developer with experience in database management and programming. Proficient in Python, SQL, and Java, with a strong background in data science. Currently pursuing an MSc in Data Science at King's College London, focusing on machine learning and data mining (including NLP).

Technical Consultant - Virtusa
November 2021 – September 2023

- Led a data migration for a UK bank, ensuring seamless transfer of sensitive customer data.
- Collaborated with clients to understand requirements and maintain data integrity.
- Utilised MySQL for data transfer and Java Spring Boot to maintain code validity.
- Deployed Python scripts for testing, improving efficiency and accuracy in the development lifecycle.
- Created comprehensive documentation and reports to track project progress and outcomes, facilitating transparent communication with stakeholders.

Education

Data Science MSc - King's College London
September 2023 – August 2024

- **Focus:** Machine Learning, Neural Networks, Data Mining (including Geospatial data and NLP), Statistics, Big Data Technologies, Computer Vision and Data Visualisation.
- **Project:** *Urban Planning Infrastructure and Health Inequalities in Northeast London* - Building regression models to predict life expectancy and income based on demographic data; evaluating clustering techniques for geospatial data mapping, with the goal of highlighting areas currently underserved by public services.

Computer Science BSc - Cardiff University
September 2018 – May 2021

- **Focus:** Data Structures and Algorithms, Programming, Security, Emerging Technologies, Project Management, Web Application Development, Communication Networks, Human-Computer Interaction and Distributed Systems.
- **Project:** *Heartbeats* – Developed a JavaScript web application linking workout and music-listening data to analyse effects on exercise performance.

Skills

- **Programming Languages:** Python (including TensorFlow), Java, SQL, R, MATLAB.
- **Web Development:** HTML, CSS, JavaScript (D3 plus frameworks like Node.js).
- **Data Analysis & Visualization** Matplotlib, Seaborn, BeautifulSoup, Selenium, Excel, Tableau.
- **Tools & Technologies:** Git, MySQL, Java Spring Boot, MongoDB, Apache Spark, Hive, QGIS.
- Co-host of an award-winning radio show.