David Roast

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Portfolio

Personal Profile

Software engineer with three years of industry experience and a strong foundation in statistics, mathematics, and data analysis. Skilled in collaborative team environments, leveraging analytical expertise to solve complex problems creatively and effectively. An Agile practitioner, passionate about programming, technology, and uncovering insights through data-driven solutions.

Education and IT Training

Aug/2021-Nov/2021 Just IT Training Ltd, London

Digital Skills Bootcamp: Software Development

A twelve-week intensive boot camp covering the fundamentals of

Web and Software development.

Sep/2016-Jul/2019 University of Bath, Bath, Somerset, BA2 7AY

Mathematics and Statistics

Core Modules: Pure and Applied Mathematics, Statistics, Computer Science

Languages: Matlab, R

Project: Data modelling of Transport Infrastructure Usage.

Sep/2014-Jul/2016 Mayflower High School, Billericay, Essex, CM12 ORT

A Level: Mathematics(A*) Further Mathematics(A) Statistics(A) Physics(C)

Sep/2009-Jul/2014 Mayflower High School, Billericay, Essex, CM12 ORT

GCSE: (10) A*-C grades in subjects including Maths and English

Certifications

• Google Data Analytics Professional Certificate (Google Career Certificates) (2024)

Comprehensive training in data cleaning, analysis, visualization, and data governance. Covered statistical methods, ethical use of data, and best practices for ensuring data quality, alongside practical experience with tools such as R, SQL, and Tableau. Completed end-to-end analysis projects to apply skills in real-world scenarios.

IT Skills

Development Skills: Python, SQL, R, Js **Web Technology:** HTML5, CSS3

Other Software: Jira, Tableau, Power BI, MySQL, PostgreSQL, DataGrip, Pandas, NumPy, Forest

Admin, HubSpot.

Projects

• Airbnb Data Analysis Project

Utilized Python and Tableau to perform in-depth data analysis and mathematical modeling to estimate Airbnb prices. Highlighted actionable insights and developed statistical models for

accuracy prediction. This project reinforced my ability to manipulate large datasets and create data-driven solutions.

• Encrypter/Decrypter Application

Developed a secure encryption and decryption tool using Python. Implemented one-time pad and password-based encryption methods to handle sensitive text files. This project showcased my ability to build reliable tools focusing on security protocols.

• Interactive Chess Website

Designed and implemented a fully functional, responsive chess application using HTML5, CSS3, and JavaScript. Incorporated object-oriented programming techniques to create a dynamic user interface, demonstrating my front-end development expertise.

Employment History and Work Experience

Junior Software Engineer GoJoe App Limited, Mar 2022 – Present

- Analyze and provide key insights using SQL to deliver statistics, metrics, and demographics from user data.
- Communicated complex technical concepts and the impact of new technologies to non-technical teams, enabling informed business decisions.
- Contribute to software application updates, focusing on performance improvements and feature development using JavaScript.
- Managed and maintained multilingual translations for the company website, ensuring a consistent global user experience.

Catering Assistant John Lewis & Partners, Sep 2019 – Jul 2021

- Assisted cross-departmental teams, adapting to dynamic workplace requirements.
- Showed commitment during the pandemic by volunteering for redeployment to Waitrose, and contributing to essential services during night shifts.

Other experience

- NatWest Bank IT Technology (2 Weeks)
- St. Luke's Hospice Charity (3 Months)
- Quilters Primary School (2 Weeks)

Interests

I enjoy building PCs from scratch, combining technical skills with creativity. I'm an avid chess player, both online and over the board, and I have a passion for solving puzzles like jigsaws and Rubik's cubes. Traveling is another interest of mine, particularly exploring vibrant big cities and historical or cultural landmarks.

Additional Info: