

# FAIZAN AHMED KHAN

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## Personal Profile

Chemical & Nuclear Engineering graduate pursuing a career in the software industry after completing a Software Development Bootcamp. Experience in building the back-end and front-end of web applications using Java, Spring, and React. Strong problem-solving and teamworking skills underpinned by group projects at university. Seeking an opportunity in a software role to take on the challenge of building solutions for complex problems and grow in a dynamic and learning-focused environment.

## Technical Skills

<b>Languages:</b>	Java, JavaScript (React), Python, SQL	<b>Tools:</b>	Spring, PostgreSQL, HTML, CSS, NoSQL
<b>Technologies:</b>	GitHub, Postman, Postico, Firebase	<b>Methodologies:</b>	TDD, SOLID

## Education

<b>Full-Stack Software Development Bootcamp</b>	<b><u>Bright Network</u></b>	<i>London, UK</i>	<b>08/2022 – 11/2022</b>
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### Pinned Photo Location Web App

- Built an Isomorphic Web App that allows a user to insert an image, description, and date on the world map by pinpointing a location.
- Utilised **React** for the front-end and **Java** for the back-end, creating a **REST API** to enable communication between the two layers.
- Implemented React components, JSX syntax, and HTTP requests to create a seamless and responsive user interface, while implementing **Spring framework** to handle server-side logic and database interactions.
- Applied agile development methodologies to effectively plan, execute, and evaluate the project.

### Music API

- Used **Spring Boot** to design and develop a REST API for a music web application, enabling the creation, reading, updating, and deleting of data through HTTP requests.
- Integrated a **SQL** database, enabling the storage of data with each HTTP request and improving the overall functionality of the system.
- Applied pair programming and version control techniques using **GitHub** to effectively collaborate with team members.

<b>Bachelor of Engineering</b>	<b><u>The University of Leeds</u></b>	<i>Leeds, UK</i>	<b>09/2018 - 09/2021</b>
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- Chemical & Nuclear Engineering BEng (Hons). **Obtained Grade: 1st.**

## Professional Experience

<b>Administrative Officer</b>	<b><u>HMRC</u></b>	<i>Manchester, UK</i>	<b>12/2021 – 08/2022</b>
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- Evaluated and processed various tax repayment claims, helping clear backlog caused by COVID-19, driving to clear more than 4,000 additional pieces of post each day.
- Trained and supervised 12 new employees, leading to a 40% increase in productivity.
- Achieved exceptional results in a quarterly performance review, exceeding the average KPI by 50%, demonstrating strong flexibility and adaptability.

## Projects

### **Nuclear Waste Treatment Plant Dissertation**

- Collaborated with a team of 5 to design a nuclear waste treatment plant, effectively using written and verbal communication to coordinate and share ideas and information.
- Developed and implemented a code to solve complex mathematical problems, resulting in a 32% increase in plant efficiency.
- Applied innovative thinking to solve complex problems and ensure the successful design and construction of an optimal plant.

### **Chemical Thermodynamics Calculations using MATLAB**

- Achieved a 76% on this assignment by developing a code that computed thermodynamic data using linear algebraic functions.
- Identified and implemented innovative solutions to challenging problems under strict time constraints, demonstrating strong problem-solving and decision-making skills.
- Optimised the solution which reduced the computation time by 50% compared to previous methods.

### **Air Quality Data Analysis**

- Conducted an in-depth analysis of particulate data dating back to the 1970s, requiring a high level of precision and thoroughness.
- Analysed over 10,000 data points and identified patterns that linked particulate concentrations to other variables, enabling the formulation of accurate conclusions and recommendations.
- Created a report summarising the findings of the study, including a literature review and statistical analysis.

## Interests

- Creating coding tutorial videos
- Writing blog posts
- Football player (central midfielder)
- Practicing mindfulness