

Northamptonshire

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Self-motivated individual, creating innovative projects using a wide range of technologies. Eager to take on exciting new challenges in the technology sector while actively engaging in collaborative learning and best practices.

TECHNICAL SKILLS

- TypeScript
- JavaScript
- Python
- React, Next JS, Node JS
- Flask, Selenium
- HTML, CSS, Tailwind
- SQL (Postgres Database)
- Jira, Confluence, Trello
- GitHub

RELEVANT EXPERIENCE

SOFTWARE DEVELOPER

January 2024–Present

Independent

- Full Stack Development: Developed a website for a hockey club using **Next.js**, **TypeScript**, and Appwrite, improving manager to team communication and increasing funding by 25%. Maintained strong communication through weekly meetings and peer code reviews, using Trello for task tracking and **GitHub** for version control. Applied Scrum methodology with two-week sprints to drive a **swift MVP release** and regularly consulted with the client to refine requirements and suggest solutions. Created a database schema and added authentication for multiple user roles. Utilised dynamic routing, cookies, and sessions for user CRUD operations, as well as middleware for secure route protection.
- Application Development: Constructed a **Python** application using Tkinter to process and manipulate Excel data, saving this in an **SQL database**. Created **unit tests** for reliability and implemented logging for streamlined error diagnosis. Regularly engaged with the client on evolving specifications, balancing consumer-facing experience enhancements with delivery commitments. Continuously improved the application through on-the-job learning, applying critical thinking and problem-solving skills to save the client 3 hours of manual work.
- Machine Learning: Created a salary band calculator with **Python** by generating data with numerical key mappings and used python libraries Keras, TensorFlow, and Scikit-learn to test multiple models, then trained the most accurate. Developed a feature to guide users on impactful changes to improve income, showcasing a strong emphasis on testing, refinement, and practical technical skill expansion.

STRATEGIC ANALYST (Promoted to Senior January 2023)

September 2020–

Snap Finance UK

January 2024

- Building MI Dashboard: Spearheaded the research and construction for a new company wide data dashboard. **Quickly became familiar** with Angular to understand the architecture and functionality of the previously built dashboard. Improved refresh time from every hour to instantly upon page refresh. Used **Flask**, **APIs** and a **Python backend**, embedding SQL queries accessing data from the **Postgres Database**. With Jinja and Bootstrap supporting the frontend for customisable diagrams, graphs and metrics.
- Company-wide Automation: Over ten processes across five departments were upgraded using **Python** to automate the tasks. Collaborated with junior colleague to extend automation efforts externally using **APIs and SFTPs**.
- AWS Data Management: Utilized **AWS S3** buckets for efficient storage, security and management of current customer data. Uploaded this data to create automated processes through AWS, resulting in overall approval rate growth of 15% by pre-decisioning existing customers for subsequent applications.

EDUCATION

UNIVERSITY OF WARWICK

*October 2017– July 2020*Bachelor of Science in Mathematics: **First Class** with Honors

- Maths by Computer - 82%: Solved complex mathematical problems within a team, that required a high number of operations using MATLAB and algorithms.
- Programming for Scientists (Java) - 75%: Learnt **Java** and object orientated programming by writing a script for n-dimensional matrix manipulations.