

# Madilah Khan

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## Summary

My name is Madilah and i am a driven Software Engineering student with experience in developing and optimising software applications. I am skilled in multiple programming languages with strong understanding of the software development life cycle. I consistently demonstrate quick problem-solving abilities and excel in collaborative team environments as well as hybrid environments.

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## Skills

- **Languages:** Python, JavaScript, CSS, HTML, SQL, Swift, C#
- **Technologies:** Git, machine learning, RESTful APIs, Phaser, MongoDB
- **Frameworks:** AWS, Azure, APIs, Supabase, NumPy, Matplotlib, Scikit-learn, ReactJS, Flask

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## Education

**Bachelor of Science:** Software Engineering

University of Northampton | Northampton | January 2024 - Current

**Relevant coursework completed to date:** Software engineering fundamentals with group project, problem solving and programming, computer systems, computer communications, JavaScript 'Snack Man' assignment, web development, GUI-based interface with Python, databases design and development with group project.

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## Experience

### Boots

Customer Advisor | November 2023 - Current

- Maintaining up-to-date knowledge of products, services, and company policies to offer accurate information to customers.
- Maintaining excellent team relationships by proactively helping colleagues solve complex customer complaints, issues, and requests.

### Microsoft

Internship programme | July 2025 - July 2025

- Designed and prototyped Notify, an AI-powered chatbot leveraging Copilot Studio and Azure AI Foundry to address inefficiencies for business workflows tailored to a real-world simulation..
- Addressed and incorporated automation strategies into Notify to streamline workflow management, enabling measurable improvements in efficiency and time optimisation.
- Delivered a live presentation and technical demonstration of the prototype to Microsoft staff at the London office, effectively translating technical features into business value.
- Collaborated in an agile, hybrid team environment, enhancing adaptability, cross-functional teamwork, and rapid problem solving under real-world conditions.

## Currys

Sales Assistant | September 2022 - September 2023

- Provided exceptional customer service while consistently achieving weekly sales targets in high-pressure retail environment.
- Gained expertise in diverse products, encompassing software systems, applications, and services offered and utilised at Currys.

## Pricewaterhousecoopers

Internship programme | August 2023 - August 2023

- Collaborated with a team to analyse a business challenge and design a tech-driven solution, applying structured problem-solving methods.
- Delivered a professional presentation of the solution to PwC staff, demonstrating the ability to communicate technical ideas to a non-technical audience.
- Explored practical applications of data analytics, digital transformation, and emerging technologies within real business contexts.

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## Recent projects

### Mini crypto portfolio tracker:

- Developed a mini crypto portfolio tracker with JavaScript, HTML and CSS based off of a personal interest of wanting to get into crypto. Using CoinGecko API to fetch live prices and helps track assets in real time.
- Integrated PnL (profit and loss) tracking and a clean, responsive UI for desktop and mobile, whilst allowing the user to select between GBP or USD and visual representations of asset management are displayed clearly through the use of Chart.js.

### Microsoft x Notify x Copilot:

- Developed an AI powered productivity platform integrating a chatbot called Notify to be integrated within business dashboards to streamline workflows.
- Features include smart reporting, meeting transcription, AI notifications, performance tracking, and analytics to boost efficiency and reduce admin workload.

### Currency converter with exchange rate API:

- Developed a currency converter application with JavaScript, HTML and CSS that fetches real time exchange rates from the Open Exchange Rates API for 150+ currencies.

- Designed a clean, responsive UI to deliver an intuitive user experience with features like instant input clearing, real time data-display, and seamless currency swapping.

#### **Custom keyword search engine using Exa API:**

- Developed a Python CLI tool that uses the Exa API to perform keyword searches with optional domain filtering that fetches and displays the top 10 results, showing each title and URL. Ideal for retrieving targeted content from specified sources.

#### **Home prices predictor with linear regression:**

- Built a simple model with Python that implements linear regression with scikit-learn to model house prices based on size.
- Includes data preprocessing, train/test splitting, model fitting, prediction,  $R^2$  evaluation, and visualisations using matplotlib and seaborn for exploratory and result analysis.

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### **Relevant sites**

- **Personal portfolio:** [madihahkhan2006.github.io](https://madihahkhan2006.github.io)
- **LinkedIn:** [www.linkedin.com/in/madihah-khan](https://www.linkedin.com/in/madihah-khan)
- **Github:** <https://github.com/madihahkhan2006>
- **Youtube:** <https://www.youtube.com/@MadihahKhan>