

Kameron Bains

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EDUCATION

The University of Northampton
Bachelor of Science in Software Engineering

Northampton
Sept. 2023– Present

EXPERIENCE

Python Student Support

October 2025 – Present

The University of Northampton

Northampton

- Delivered **one-to-one and group tutoring sessions** to help students debug and understand **Python programming concepts**, improving their coding confidence and problem-solving ability.
- Explained **logic structures, functions, and algorithms** using clear, practical examples, enabling students to **resolve issues independently** and strengthen their foundational programming skills.

Software Engineering Intern

April 14–18, 2025

BT Group

Birmingham

- Developed a **QR code ticket validation system** using **Raspberry Pi, Linux, and JSON**, improving event entry efficiency and reliability within an **agile team environment**.
- Engineered and deployed **modular system components** using **microservices, TOML configuration, and Git**, enhancing scalability and maintainability of internal systems.
- Collaborated in team **sprint meetings** to plan features, review progress, and deliver concise **technical updates**, strengthening communication and project alignment.

Hackathons & Challenges

2025

The University of Northampton

- Triad Challenge:** Designed and implemented a **GP booking system** in **PHP** during an **agile two-day sprint**, presenting to **industry professionals** and **winning 1st place** for best technical solution.
- Access Group Challenge:** Built a **supplier data platform** integrating **PHP and REST APIs**, applying **agile methodologies** to deliver a data-driven solution and receive positive **industry feedback**.
- Toru Challenge:** Developed an **e-commerce engagement ring browsing website** using **PHP**, collaborating in an **agile team** to deliver a polished prototype and **secure 1st place** from **company judges**.

Millets

May 2022 – Oct. 2024

Retail Assistant

Leamington Spa

- Delivered **exceptional customer service** in a fast-paced retail environment, **resolving customer queries efficiently** and **building confidence and communication skills** through daily interaction with a diverse clientele.

PROJECTS

StepUpGamified Fitness App | *TypeScript, React-native, Firebase*

September 2025 – Present

- Developed a **cross-platform** fitness app designed to **increase** users' physical activity by up to **50%** through XP levels, streaks, and gamified progress rings.
- Integrated** Google Fit / Apple HealthKit **APIs** for **real-time** step and calorie tracking.
- Followed **agile methodology** with **iterative sprints**, version control via **Git**, and **user-centred design** principles.

CLI Ai Agent | Github Repo

October 2025 – Present

- Developed a command-line **AI** agent capable of automating tasks and responding to natural language prompts using the **Gemini API** for intelligent task execution.
- Gained experience with **API integration**, command parsing, and **Python** libraries to create a responsive and **modular automation** system.

TECHNICAL SKILLS

Languages: Python, Java, C++, JavaScript, TypeScript, PHP, SQL, Kotlin

Frameworks: React, React Native, Node.js, Flask, Laravel

Tools & Platforms: Git, Docker, AWS, Firebase, Google Cloud Platform, Linux, Neovim

Libraries: NumPy, pandas, PyTorch

REFERENCES

Available upon request