



Brandon Sandhu, Software Developer

Hi! I'm Brandon, I enjoy envisioning and building ideas into a reality. I currently study Mathematics and enjoy programming as a hobby. I wish to amalgamate my degree with my hobby to pursue a career in software development. A technological interest of mine is in the field of Artificial Intelligence, more about that below...

PAST PROJECT EXPERIENCE

Skills Gained

Analytical Thinking

Debugging & Troubleshooting

Software Logic

Adaptability in a Team

Abstract Thinking

Programming Skills

Python ●●●●●●
Excellent

PHP ●●●●●●
Advanced

JavaScript ●●●●●●
Intermediate

HTML / CSS ●●●●●●
Excellent

Java ●●●●●●
Intermediate

MySQL ●●●●●●
Advanced

Data Analysis on Twitter API, Bedford

June 2020 – July 2020

- Personal project during COVID-19 to scrape tweet data from Twitter and create a hotspot map using semantic analysis techniques in Python.
- Used TensorFlow to facilitate machine learning models to create a map of locations with anomalous semantic weights.
- Gained experience working with an official API with application to the real world.

Web Developer at Console Controllers, Bedford

May 2021 – August 2021

- Developed an eCommerce website using a selection of tools, most notably: Python, JavaScript, and PHP.
- Integrated existing platforms into the framework such as: Google Ads, Stripe Checkout, and PayPal.
- Used Python to perform data analysis on the information in the MySQL database to improve the performance of the website.

Game Developer at Fight My Monster, Bedford

May 2022 – August 2022

- Started building a mass-multiplayer online game using a hybrid of PHP and NodeJS as integrated backends.
- Developed an understanding of real-time applications and algorithmic structures such as load balancers to serve multiple clients with maximum efficiency.
- Explored game design development using modern HTML5 to build game GUI.
- Worked with a team consisting of backend and graphics developers.

Personal Qualities

- Organised:** Coordinated a team in collaboratively creating an online game.
- Logical:** Applying a mathematically oriented mind to problems, to construct solutions.
- Communication:** Confident to meet new minds, share ideas and work within a team.
- Friendly:** Work in a positive environment to circulate creative thoughts.

EDUCATION

Master of Mathematics (MMath)

September 2021 – June 2025

- Second-year student on a four-year course: **Master of Mathematics (MMath)** at the University of Warwick.

LANGUAGES



English (Native Speaker)



Punjabi (Fluent)

LINKS



Portfolio & Personal Website: www.brandonsandhu.com



LinkedIn: www.linkedin.com/in/brandonsandhu