

# Gabriel Magnus Wright

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Having graduated from the University of Warwick, I am currently focused on pursuing a career in software development. My academic background includes an MSc in Data Analytics (Distinction), and a BSc in Mathematics (First Class Honours). Over the last year I have dedicated myself to upskilling my Software Development skills. My primary programming proficiency lies in Java, where I have been actively developing personal projects familiarising myself with available frameworks like Spring Boot, and common build tools and packages such as Maven, Junit and log4j.

## Projects

### **Full Stack Spring Boot WebApp ([gabrielwright.xyz](http://gabrielwright.xyz))**

- Designed, developed and deployed my own user-friendly website for publishing articles and blog posts using Spring Boot for back end and Vaadin for front end.
- Integrated and communicated with a MySQL database using Spring Data JPA, streamlining data access to articles and ensuring efficient database operations.
- Implemented an API to enable safe live updates to the site, using Spring Security to secure authentication and protection against potential attacks.
- Ensured maintainability and extensibility of the web app, with consideration of aesthetics and functionality across devices.

### **Unity Multiplayer Party Game**

- Working with a group of friends to develop a multiplayer party game, developed in Unity engine. Currently featuring 16 minigames in the beta stage, with a target of 20.
- Adhered to deadlines and task assignments based on group requirements, ensuring consistent progress for project timelines.
- Created documentation on notion with asset lists to support development and collaboration with artists.
- Organised playtests to gather feedback. New features are developed based on feedback maintaining a dynamic development loop.

### **Java 2D game Demo & Bank Statement Converter**

- Developed a Java 2D game demo featuring graphics and GUI elements using Java's JFrame.
- Implemented Spatial Hash Mapping and A\* pathfinding entities for optimised collision and entity navigation.

### **Bank Statement Converter - CSV/XLS to SQLite Databases**

- Developed a Java application using JDBC to convert downloaded bank statements into SQLite databases.
- Transactions stored in SQLite databases can be converted to organised Excel documents.

## Relevant Employment History

### **Support Engineer at Content Guru (November 2022 - March 2023)**

- Initial point of contact for technical support in a Contact Centre as a Service (CCaaS) company.
- Classified and triaged problem tickets raised by clients.
- Acted as a liaison between clients and internal teams, translating technical jargon to non-technical stakeholders.
- Collaborated with multiple teams within the company, including Quality Assurance and Development, to escalate and resolve bugs raised through support tickets.
- Played a key role in the software support pipeline, compiling problem tickets, contributing to knowledge sharing and documentation, and enhancing team efficiency and client support.

## **Education**

### **University of Warwick MSc in Data Analytics - Distinction** (September 2021-September 2022)

#### **Foundations of Data Analytics and Data Mining**

- Studied techniques that enable a deeper understanding of patterns and structures within data. This included learning how to complete Statistic studies, Data Pre-processing and Machine Learning in Python.

#### **Natural Language Processing (NLP)**

- Learnt current applications and implementation of NLP such as in Sentiment Analysis, Information Extraction and Recommender Systems.

#### **Algorithmic Game Theory**

- Focused on the algorithmic and computational complexity aspects of game-theoretic models.

#### **High Performance Computing (HPC)**

- Provided a solid foundation in HPC including Shared memory programming (OPENMP) and Message passing programming (MPI) in C++.

#### **Opinion Dynamics**

- Completed my dissertation in the research area of Opinion Dynamics. Opinion Dynamics studies the transference or changing of states for agents in a given network and is used in Social Networking, Finance and Business.

### **University of Warwick BSc in Mathematics - First Class Honours** (September 2018-July 2021)

#### **Mathematical Analysis**

- Developed appreciation for the construction of the fundamental parts of pure mathematics such as convergence, differentiation and integration.

#### **Linear Algebra**

- Learnt mathematical steps to linear programming, reducing problems to a system of simultaneous linear equations that can be solved through the application and manipulation of matrices and vectors.

#### **Abstract Algebra**

- Studied abstract algebraic structures, such as groups and rings and learnt how to manipulate them.

#### **Mathematical Statistics**

- Gained understanding on the main ideas of Statistical Inference and applied Statistical techniques, such as standard families of Probability distributions, Maximum Likelihood Estimation and hypothesis testing.

#### **Stochastic Processes and Games, Decisions and Behaviour**

- Learnt about simple Stochastic Processes and conditional probability, Markov Processes and normative decision theory.

#### **Differential Equations**

- Studied Differential Equations for use in both pure and applied mathematics. This included Ordinary Differential Equations, Difference Equations and Partial Differential Equations.

## **Part-time Employment History**

**Retail Assistant at Holland and Barrett** (September 2023 - March 2024)

**Bar Staff at Club 147** (July 2021 – September 2021)

**Customer Assistant at Primark** (July 2021 – September 2021)

## **Hobbies and Activities**

- Whilst at the University of Warwick I was the TO (Tournament Officer) for Warwick Nintendo Society, a thriving university society of over 180 members. As TO I organised weekly university tournaments, biweekly tournaments that welcomed players from the rest of the Midlands, and larger events that attracted strong players from around the UK. I undertook specific training for this role, particularly in Safeguarding Children and Active Bystander Intervention.
- I take an active interest in sports, fitness and enjoy regularly attending the gym, a hobby that keeps me fit and thinking clearly in all areas of my life.
- I am an active member of a book club with a wide group of friends that I met from university. I try my best to read around the content I consume and keep myself open to new ideas and genres.