Aidan Brooks

Mobile: 07500 399606   Email: Aidan.Brooks.Mail@gmail.com

About Me

Competent, punctual and friendly, as a graduate specialising in computer science and mathematics, I have a broad spectrum of experience in roles requiring a variety of both technical and interpersonal skills, as well as a keen interest in the subject matter and in furthering my own skills and knowledge. I am seeking an opportunity to develop industry experience and relevant skills as well as progressing towards achieving further accreditation in the field of computer science and software engineering.

Education

- BSc Computer Science and Maths, First Class Honours, Loughborough University, Oct 2021 – July 2024
    - Modelling and implementation of Artificial Intelligence Systems
    - Software Engineering, Formal Languages and Object-Oriented Programming
    - Structure and design of Distributed Systems
    - Front and back-end software, including general Web Development
- Advanced Level Qualifications, Hardenhuish Sixth Form, Sept 2019 – July 2021
    - Computer Science, Grade A
    - Mathematics, Grade A
    - Further Mathematics, Grade B
    - Psychology, Grade C
- General Certificate of Secondary Education, Hardenhuish Sixth Form, Sept 2014 – July 2019
    - Mathematics, Grade 8
    - Computer Science, Grade 7
    - Physics, Grade 7
    - Chemistry, Grade 7
    - Biology, Grade 6
    - Business, Grade 5
    - English Literature, Grade 5
    - English Language, Grade 4

Past Experience

Loughborough University - Final Year Project

- Implemented an agent-based system utilising evolutionary algorithms to optimise strategy
- Effectively utilised a distributed architecture, achieving notably better performance, consistency and results than similar systems without such an approach.
- Designed and implemented a small scale, fit-for-purpose request Application Programming Interface (API), ensuring scalability and consistency remained at the forefront of design across potentially large deployments with various hardware requirements.
- Analysed my project results using a variety of tools including MATLAB scripts and python programs, producing clear and helpful representations and statistical measures.

Loughborough University - Videogames and Esports Society

- Spent three years developing interpersonal skills and working alongside a committee of up to 16 other members.
- Gained firsthand experience in minute taking for society meetings as well as other relevant skills including effective communication and cohesive teamwork.

- Planned and hosted a variety of events for upwards of 100 society members during first year on committee as 'Community Gaming Officer', ranging from short regular events to multi-day LAN (Local Area Network) events.
- Was in charge of maintaining and upgrading most, if not all, of the society server infrastructure during second and third years as 'Technical Officer'.
- Migrated society infrastructure from physical hardware to a cloud-based solution during a time sensitive transition without compromising on availability.
- Learnt how to approach and resolve problems of a more technical nature, documenting procedures and solutions where existing documentation did not exist or was lacking.
- Developed skills in Linux operating systems such as Ubuntu and Debian, specifically at a command line level, including many of the standard tools used when working with these systems.
- Handled the migration of many assets to a Docker based deployment strategy, including the use and modification of existing images where appropriate, as well as the development of bespoke images where a sufficient solution did not already exist.
- Handled networking and setup for LAN events; including producing power plans, providing network connection and managing a group of volunteers to implement both in a timely fashion.

Bybrook Farms - Part Time Work

- Worked alone and with a team to effectively manage a constantly developing situation, often without direct supervision or instruction.
- Trusted to manage an entire site on my own when others were unavailable, often going without oversight or assistance for most if not all of the day while still meeting targets and expectations.
- Handled multiple time sensitive situations simultaneously on a regular basis through effective planning and understanding of the established process.
- Identified effective uses of downtime between any main tasks in order to improve productivity and maintain a healthy workload balance throughout the day.

Particular Skills

- Knowledgeable in a broad spectrum of areas, especially relating to software engineering/deployment and always willing to learn more in order to improve workflow and productivity.
- Punctual and well organised. Able to anticipate risks and communicate when issues arise so as to identify and implement controls and mitigations.
- Capable with a large suite of software and tooling, ranging from Microsoft Office to Vim.
- Friendly and cooperative, open to critical feedback if it can help me improve.
- Well versed in languages ranging from Python, Lua, VBA and MATLAB to Java and C#, with the ability to adapt to new languages if required. Currently learning React/TypeScript with a focus on NextJS.
- Able to analyse and interpret data using mathematical models and statistical analysis.
- Keen to develop a further understanding of industry applications with regard to my learning so far.

Relevant Interests

In my downtime I have been known to enjoy a variety of video games, leading to a fascination with modding and game related development which prompted much of my early learning in languages such as Lua and C#. This interest continually exposes me to new languages, environments and approaches which all contribute to my personal development and skillset. It has also led to me being familiar with many different file structures such as JSON, XML, YAML and others which I can now read and use with a level of competency.

Additional Notes

- British national with full, up to date, UK Passport and documents available. Willing to apply for security clearance if necessary or requested.
- Referee available if required.