

Charlie Brooker

United Kingdom

+447388071093 | brookercharlie@gmail.com | charlie-brooker.com | https://github.com/C-Brooker | linkedin.com/in/charlie-brooker-081b241b0/

Education

Aston University

BSc Computer Science

Birmingham, UK

September 2022 - Present

- Predicted Degree Classification - 1:1

Clacton County High School

Sixth form

Essex, UK

September 2019 - August 2021

- A-Level Mathematics (B), A-Level Computer Science (C), BTEC IT (A*)

Professional Experience

Macquarie

London, UK

Software engineer - Intern

June 2024 - Present

- Data visualisation dashboard - Enhanced trader data available in custom models by 10% using Python for data parsing and React
- Email Excel automation script - Improved email alert and storage efficiency by 30% by using python libraries with AWS lambda for automation
- Reduced Front-end load times: Reduced help desk webpage load times by 20% by implementing progressive hydration
- Adjusted pod resources to save cloud costs: Reduced CPU Utilization by 35% from optimizing resource limits
- Hackathon confluence scraper: Improved Confluence searching by over 50% by scraping for similarity with the OpenAIs Embeddings
- Soft skills - Organised 6 networking lunches between fellow interns and software engineers
- Technical Skills:** Java, Python, PostgreSQL, Spring Boot, Kafka, Docker/Kubernetes, Jenkins

JP Morgan

London, UK

Technology - Summer work experience

June 2022

- Created webpage which imports, parses and converts tables within files into excel sheets to win Hackathon as a team of 4 out of 14 teams
- Presented our project demo for 3-day hackathon to junior, mid and senior engineers
- Technical Skills:** BROADER CONCEPTS E.G. Back-end development, Front-end development, Cloud computing, etc.

InvestIn

Investment research - Summer work experience

May 2022 - June 2022

- Created and refined Excel sheets on investment assets in the fastest time out of 8 teams
- Planned and debated against other students on the state of the financial markets to an audience of staff
- Skills:** Team work, public speaking, research, data analysis, etc.

PWC

Consulting - Summer work experience

May 2022

- Created Presentation on sustainability of wind power to come 2nd in a competition about renewable resources as a team of 2 out of 20 teams
- Presented research on long-term cost effectiveness of wind farms to an audience of senior engineers, VPs and other technical staff
- Skills:** Team work, public speaking, research, data analysis, etc.

Collaborative experience

Paid employment: McDonalds (Aug 2019 - Sep 2021), Iceland (Sep 2021 - Sep 2022), Diesel Selfridges (Nov 2023 - May 2024)

University: BJJ competitor (FearlessMMA/All stars), Aston university Mixed martial arts society, Aston university Computing society

Projects

Gains - Gymwear marketplace

Full-Stack application

Full-Stack gym ecommerce website with admin functionality.

Present

- Technical Skills:** Laravel, Vue3, TailwindCSS, Pinia, MySQL
- Conceptual Skills:** System architecture, Database Design, API Design, Authentication

Technical Skills

Programming: Java, Python, TypeScript/Javascript, R, Git

Web technologies: Spring/Spring Boot, React.js, Next.js, Express.js, HTML5, TailwindCSS

Database technologies: SQL (PostgreSQL) | NoSQL (MongoDB)

CI/CD: Docker, Kubernetes, AWS