

Jed Walton, MBCS

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WORK EXPERIENCE

Full Stack Engineer

Bidlogix Limited

Brighton, United Kingdom

September 2022 - Present

- Gained experience with TDD in TypeScript and Node.js ecosystem. Frameworks include; Serverless, React, Redux, Stripe, Svelte, NX, Cypress, Enzyme et al.
- Gained experience developing features, maintaining and refactoring monolithic Java Spring applications within complex dockerized build environments.
- Gained proficiency in QA techniques (Unit, Integration, and End-to-End Testing)
- Became familiar with DevOps techniques including CI/CD pipelines, automated testing, build automation and source control.
- Gained exposure to Scrum Methodologies. Collaborated across a variety of tasks throughout the full software development life cycle.
- Worked with AWS services including S3, Lambda, CloudFormation, CloudWatch, DynamoDB.
- Developed numerous scripts to save developer hours by automating repeated jobs including automating the developer onboarding process.
- Cultivated deep passion for computer science and engineering, terminal based tooling, programming and AI.

EDUCATION

University Of Sussex

• *BSc (Hons) - Computer Science and Artificial Intelligence; Degree Classification: 2:1*

Brighton, United Kingdom

October 2018 - June 2021

Relevant courses:

- Mathematical Concepts
- Programming Concepts
- Data Structures & Algorithms
- Compilers and Computer Architecture
- Software Engineering
- Further Programming
- Program Analysis
- Fundamentals of Machine Learning
- Knowledge and Reasoning
- Neural Networks
- Databases
- Human-Computer Interaction

JetBrains Academy

• *Java Developer, Java Backend Developer*

Online

Sept 2021 - August 2022

Relevant topics include:

- Object-oriented programming
- Functional programming
- Generic programming
- Spring Framework

SKILLS SUMMARY

- **Languages:** TypeScript, Java, Python, Lua, C, C++, C#, SQL, LaTeX
- **Frameworks:** Spring, React, Cypress, Unity
- **Tools:** Docker, Git, DynamoDB, MySQL, PostgreSQL, SQLite
- **Platforms:** Linux, Windows, AWS
- **Soft Skills:** Communication, Time Management, Deep Work, Ownership

PROJECTS

- **Ray Traced Reverberation Chamber - University Of Sussex - Dissertation 72/100, 1st. (C++):** Completed an extensive piece system design and implementation work under the supervision of Dr Kingsley Sage. The project involved the creation of an artificial reverberation chamber using ray tracing techniques modelling the propagation of sound along with a variety of emulated microphones and a graphical user interface. Worked independently to a large extent, defined the problem boundaries, investigated possible solutions, and presented the results verbally, in writing, and demonstrated them in action.
- **Monopoly Spin-off, 'Property Tycoon' - University Of Sussex - Software Engineering group assignment 77/100, 1st. (C#):** Undertook a team-based coursework, which involves the production of a significant software deliverable in the form of an interactive gaming application. Gained experience working on the whole life-cycle of a software product including: requirement analysis, software architecture and design, implementation, quality assurance, maintenance activities. Further gained experience with social issues in software engineering such as team-structures and conflict management. Other issues covered include: agile software engineering methods, testing, test-driven development, coding practice and standards, design and code reviews, version control.
- **Recipes - JetBrains Academy (Java):** Created a multi-user web service with Spring Boot that allows storing, retrieving, updating, and deleting recipes. Gained experience working with JSON, REST API, Spring Boot Security, H2 database, LocalDateTime, Project Lombok and other useful concepts for the backend.

HOBBIES AND INTERESTS

- **Lifting Weights:** Allows me to feel grounded and clear-headed. The discipline I have developed reduces perceived effort of cognitive work considerably.
- **Drums:** Taught me the value of deliberate practice. Achieved grade 8 with distinction.
- **Brazilian Jiu-Jitsu:** Gained experience becoming part of a cohesive group of people who are helping each other to better themselves.