Jed Walton

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EXPERIENCE

Software Engineer
1x2Network

Brighton, United Kingdom
January 2024 - Present

- Core technologies: Go, Java, Linux, SQL.
- Maintained the Central Admin System. This includes managing, debugging and fixing data pipelines with millions of records daily critical for business intelligence and invoicing.
- Introduced automated unit, integration, regression and E2E testing.
- Onboarding bespoke client integrations into complex aggregation platform.
- Implemented and maintained features across Java and Go code bases.
- Migrated clients from legacy systems to new Go systems.
- Improved logging to generate actionable insights.
- Skilled in modern development practices such as Kanban, JIRA, Confluence, Bitbucket. Daily standups.
- Provided mentoring and guidance to new junior developers.
- Coordinated a small team of offshore developers to achieve high leverage in support activities.

Golang Developer
Freelance

Remote
October 2023 - November 2023

- Implemented a File Q&A with Vector Databases, and OpenAI.
- Full-Stack Golang and TypeScript Development.
- Integrated OAuth across the stack.
- Integrated Weaviate Vector Database with OpenAI embeddings using PostgreSQL data.
- Gained exposure to Micro-SaaS and product development.
- Implemented complex container orchestration with Docker Compose and live reloading.
- QA techniques including Unit, Integration, and Automated testing in CI.
- Implemented CI/CD Pipelines with GitHub Actions including automated PostgreSQL database backups, rollbacks, migrations, staging and production environments.

TypeScript Developer
Freelance

Remote
March 2023 - August 2023

- Gained proficiency with Full-Stack TypeScript with tRPC, Nextjs.
- Dockerized state of the art video super resolution machine learning algorithms for deployment to production.
- Gained working knowledge of Kubernetes through a spike into the viability of deploying on demand GPU clusters for inferencing SOTA Video Super Resolution Algorithms.
- Designed and implemented a walking skeleton for a new product.

Full Stack Engineer
Bidlogix Limited

Brighton, United Kingdom
September 2022 - March 2023

- Worked with large monolithic Java Spring Boot applications and Dockerized build environments.
- Scrum with Atlassian software development with JIRA, Confluence and Bitbucket including Daily Standups, Sprint Planning and Retrospectives.
- Gained working knowledge of Container Orchestration, CICD Pipelines and QA techniques.
- Automated builds, deployments and load tests with a combination of Bitbucket pipelines and Jenkins.
- Developed features within AWS infrastructure including, DynamoDB, CloudWatch Log Insights, CloudFormation, S3, APIGateway.

Web3 Developer
Freelance

Remote
May 2021 - Sept 2021

- Built and managed a 6 GPU Ethereum Mining Cluster.
- Gained proficiency in linux.
- Exposed to highly collaborative start up environments.
- Gained familiarity with Hardhat, Ethersjs, Solidity, MetaMask, and Infura.

Customer Facing Employment
(18 Months Total)

Oxford, United Kingdom
2015 - 2017

- **The Bullingdon Venue**: 1 Month
- **M&S**: 8 Months
- **The Vaults & Garden Cafe**: 1 Month
- **Waitrose**: 7 Months
- **Walton Street Cycles**: 1 Month

SKILLS SUMMARY

- **Languages**:   Go, Java, SQL, C, Python
- **Libraries & Frameworks**:   Gin, Spring, gRPC
- **Tools**:   Git, MySQL, PostgreSQL, Kafka, Redis, Docker, JetBrains, nvim, vi, tmux
- **Platforms**:   Linux, Mac, Github, Bitbucket, Jenkins, AWS, GCP
- **Soft Skills**:   Critical, Pragmatic and Reflective Thinking, Mentoring, Deep Work

Education

- **JetBrains Academy** — Online
  Java Developer, Java Backend Developer — *Sept 2021 - August 2022*
  Relevant topics include:
  - Object-oriented programming
  - Generic programming
  - Functional programming
  - Spring Framework

- **University Of Sussex** — Brighton, United Kingdom
  BSc (Hons) - Computer Science and Artificial Intelligence; Degree Classification: 2:1 — *October 2018 - June 2021*
  Courses:
  - Mathematical Concepts
  - Programming Concepts
  - Data Structures & Algorithms
  - Compilers and Computer Architecture
  - Software Engineering
  - Further Programming
  - Program Analysis
  - Introduction to Programming
  - Introduction to Computer Systems
  - Fundamentals of Machine Learning
  - Knowledge and Reasoning
  - Neural Networks
  - Natural Language Engineering
  - Acquired Intelligence & Adaptive Behaviour
  - Computer Vision
  - The Ghost in the Machine?
  - Databases
  - Human-Computer Interaction
  - Web 3D Applications
  - Ray Traced Reverberation Chamber (Dissertation)

- **University Of Sussex** — Brighton, United Kingdom
  Computing Sciences Foundation Year — *October 2017 - June 2018*
  Courses:
  - Mathematics for Computing
  - Foundation Programming
  - Program Design
  - Database and Application Development
  - Communication and Learning Skills
  - Computing Project

- **Cheney 6th Form** — Oxford, United Kingdom
  A-Levels — *Sept 2015 - June 2017*
  Courses: Computing, Physics, Music

Projects

- **Current Project Activity**: Up-to-date project activity available at github.com/JedWalton

- **LucidFX**: Created a walking sketeleton to trigger state of the art video super resolution algorithms from the web browser, and inference models in the cloud. Conducted experiments to test the viability of deploying such a product. Outputs of experiments available at https://www.youtube.com/@drumlucidly

- **Ray Traced Reverberation Chamber - University Of Sussex - Dissertation 72/100, 1st.**: 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.

Hobbies and Interests

- **Micro-SaaS**: Passionate about building small, profitable, and bootstrapped businesses.
- **Mentoring**: Enthusiastic about sharing knowledge and collaboration to move from A to B efficiently.
- **Drums**: Taught me the value of deliberate practice. Achieved grade 8 with distinction.
- **Lifting Weights**: Allows me to feel grounded and clear-headed. The discipline I have developed reduces perceived effort of cognitive work considerably.

References

- **Available on request.**