

Jack Morrison

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Education

Imperial College London

MEng Computing

2017-2022

- Final Grade: First
- IC Skydiving Secretary '20/21

Westcliff High School for Boys

Sixth Form

2015-2017

- A Levels (Mathematics, Further Maths, Computing, Physics) - 4 A*
- EPQ (Computer Assisted Proofs) - A

Technical Experience

Languages

TypeScript Python HTML CSS
JavaScript C C++ Swift

Tools & Frameworks

React SQL MongoDB Next.js Git
Docker Solr Kafka FastAPI

Skills

German Language Proficiency

I have achieved B1+ standard of the Common European Framework of Reference alongside my degree studies

Web Design

I have created many full stack websites, increasing my familiarity with technologies such as React, Vue and Node.js

Teaching

I taught an 'Introduction to Python' course to a class of 15 year old students, as well as a Robotics course to a group of Primary School children

Experience

Bloomberg LP *Software Engineer*

September 2021 - Present

- Currently working on Bloomberg's Web and API enterprise data product: DATA<GO>
- Working full stack using a modern React/TypeScript frontend and Python backend
- Leading multiple large-scale multi-team projects, including migrating our site to cloud-based hosting
- Member of the Bloomberg Web UI standards committee

Nextjump *Software Engineering Placement*

July 2020 - October 2020

- Worked on mission-critical features, improving existing and creating new systems to prepare for increased site traffic and revenue in Q4 2020
- Owned multiple full-stack projects created using Vue.js and Go
- Collaborated remotely with a team of engineers, UX designers and business associates to research and implement solutions on how to improve UX

Nextjump *Software Engineering Intern*

June 2019 - September 2019

- Worked on the online platform PerksAtWork using PHP, JavaScript and Go
- Managed & worked on many projects which were deployed to millions of users
- Used the scrum agile methodology, working in 3-week sprints
- Ran the UK Office's 'Adopt-a-School' scheme, teaching robotics, teamwork and public speaking to underprivileged children

Facebook *Hack-a-Project Participant*

October 2018 - November 2018

- Participated in an programme at Facebook with the goal of creating an application to 'Bring Communities Together'
- Used the scrum agile methodology, working in 2-week sprints
- Created MentorMe, a mentoring app made using React.js and Node.js

Projects

Osti

October 2020 - June 2021

- Generates personalised context-aware music recommendations in real-time using multiple vectors of data
- Built a microservice-style system with Python, JavaScript and Swift services
- Evaluates multiple methods, including existing ones from literature

Canvas

October 2019 - January 2020

- Created a collaborative drawing whiteboard application for iOS
- Researched Conflict-free Replicated Data Types (CRDTs)
- Used a mesh network topology consisting of local Bluetooth connections and a global XMPP server to allow for decentralisation
- Created a public protocol to interoperate with other whiteboard applications, including one created by other students

Burst My Bubble

May 2019 - June 2019

- Tackled the problem of confirmation bias in the consumption of news
- Built a webapp using React, Python, Java, MongoDB and Microsoft Azure
- Awarded second best WebApps project in our Undergraduate class