

JAMES REAVER

FULL STACK ENGINEER

This curriculum is publicly available and does not include personal data.

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EXPERIENCE

SOFTWARE ENGINEER

MAY 2020-

Amazon, London

- Building the systems that run the world's largest e-Commerce products catalog.
- Developing key micro-services for the Selection Contribution Platform, which powers the online buying experience for customers worldwide.

FULL STACK DEVELOPER

2018-20

10 Downing Street, London

- Designing, testing and implementing mission-critical GOV.UK platforms that support cross-government communications and campaigns.
- Building accessible tools for news monitoring, data analysis and visualisation, content management and digitalisation of internal communications.

QUANTITATIVE DEVELOPER

2017

Brean Howard, London

- Implemented a multi-purpose data management platform with concurrency-safe RESTful APIs.
- Produced a new reactive interface for real-time data-intensive Straight Through Processing feeds.

ACHIEVEMENTS

SINGLE SIGN-ON SYSTEM

APR 2019-20

- Engineered a cross-government sign-on service from the ground up around the OpenID protocol.
- Delegated auth system allows over 6,000 members of 300 government departments to access internal websites securely and privately with one account.

HYPE FRAMEWORK

MAR-JUN 2018

- Published a web framework to perform continuous A/B experiments on live applications, validating the assumptions through tangible site metrics.
- Hype offers version control integration, real-time statistics and fully-automatic cloud deployment.

FIRMAMENT.SPACE

MAY-JUN 2016

- Led the creation of Firmament, a web app to render the constellations of the night sky in real-time, based on the viewer's time and location.
- Runner up in the IBM Group Project prize.

EDUCATION

IMPERIAL COLLEGE, LONDON

2014-18

- MEng Computer Science (First-class honours).
- Modules include Large-scale Databases, Operating Systems, Software Reliability, Compilers, Networks and Web Security, Scalable Distributed Systems.
- Won 'Best Project of the Year' by the Pi Foundation for a Raspberry Pi implementation of Pong (game).

ST. DAVID'S COLLEGE, CARDIFF

2012-14

- Mathematics (A*), Further Maths (A), Physics (A). Gold award in the Senior Mathematical Challenge.

TECH SKILLS

SOFTWARE DEVELOPMENT

- **Programming languages** (by experience): Java, JavaScript, PHP, Python, C/C++, Haskell.
- **Frontend development:** Node.js, React, Redux, HTML5, SCSS, Electron, ES6, Angular, Mocha.
- **Backend development:** Laravel, Express, Docker, Deployer, Neo4j, MySQL, AWS, GCP, Kubernetes.
- **Methodologies:** Scrum, Hypothesis and Test driven development, Git, CI/CD, PHPUnit/JUnit, Selenium.

FOREIGN LANGUAGES

- Bilingual fluency in **English** and **Italian**. Basic knowledge of Arabic, French and Latin.

INTERESTS

LEARN-TO-CODE CLUB

FEB-JUNE 2019

- Kicked off classes at work for colleagues wishing to code for the first time, with over ten sites launched.

COMPUTING TEACHER

JAN-MAR 2018

- Taught Algorithms & Coding of GCSE Computer Science in a secondary school, with the aim to make students excited for computers and code.

ENGINEERING SCHEME

OCT-MAY 2013

- Worked in a team with National Grid to improve the LNG conversion process. Proposal received the 'Best Energy Appreciation' award by MP J. Willott.