

Kimberley Stonehouse

kimbethstonehouse@gmail.com | +447932003660

 [kimbethstonehouse](#) |  [kimbethstonehouse](#)

INSIGHTS

AMAZON | SPRING INTERN

April 2019 | Edinburgh, UK

One of 14 students invited to the Amazon Development Centre Scotland. Attended workshops and talks about the company and their technologies. Participated in a three day hackathon to create an [Alexa skill](#), working closely with an Amazon software engineer. Delivered a pitch on our product to Amazon employees.

BARCLAYS | SPRING INTERN

April 2019 | Glasgow, UK

Attended workshops on voice biometrics, cloud services, big data, and applications of these technologies in the financial services sector. Participated in a group project that involved researching virtual reality technology, proposing ideas on how VR could be used to benefit Barclays, and presenting to a panel of senior employees.

AWARDS

BLACKROCK

BEST FINANCIAL HACK

March 2019 | Hack the Burgh

For Spenny, a smart budgeting application that uses ONS spending statistics, regional data and income deciles to create tailored budgets.

MONZO

BEST DIGITAL RECEIPT READER

January 2019 | Hack Cambridge

For a [receipt reader](#) that scans paper receipts and creates itemised digital versions, which are then attached to transactions in the Monzo app.

MICROSOFT

BEST COGNITIVE SERVICES USE

April 2018 | CopenHacks

For [SprogGo](#), an interactive language learning app that uses Microsoft's Computer Vision for image recognition.

EXPERIENCE

GOOGLE | SOFTWARE ENGINEERING INTERN

June - September 2021 | London, UK

Worked within the Play Console team on a feature (PLR) that tests apps on real Android devices. Implemented a load balancing algorithm to reduce testing latency. Also implemented a dynamic device selection algorithm to select the test Android devices based on individual app characteristics.

JP MORGAN CHASE & CO. | SOFTWARE ENGINEERING INTERN

June - August 2019 & June - August 2020 | Glasgow, UK

Completed two internships and was responsible for the development of new internal applications. Full stack development using Java and React-Redux. Wrote both unit tests and integration tests and followed Agile practices. Shadowed employees in different sectors of the firm to learn about technologies in use.

THE UNIVERSITY OF EDINBURGH | TEACHING ASSISTANT

January 2019 - Present | Edinburgh, UK

Provide teaching assistance for undergraduate Computer Science courses. This role mainly involves preparing and releasing coursework assignments, assisting students with questions relating to the course content, marking assignments, and providing feedback to students.

EDUCATION

THE UNIVERSITY OF EDINBURGH

PHD (COMPUTING SYSTEMS ARCHITECTURE)

2021 - 2024 (Expected)

Researching JIT compilation as a service, which aims to remove the local aspect of JIT compilation from the requesting device. Instead, specialised JIT servers will produce highly optimised client code, and those JIT servers can be accelerated using dedicated hardware. Using specialised servers also allows caching and sharing compilations between clients, reducing wasted computation, and in turn, reducing both latency and power consumption.

THE UNIVERSITY OF EDINBURGH

COMPUTER SCIENCE BSc (HONS)

2017 - 2021 | GPA 4.0

Awarded a first class honours degree. Redesigned a research operating system to support [multicore processing](#), resulting in a clean multicore interface and a modular scheduler, which is now used as a research tool to investigate intelligent scheduling approaches. Wrote a [thesis](#) about it.

PRIOR PURSGLOVE SIXTH FORM

2014 - 2016 | AAB

Studied further mathematics, mathematics and computing at A Level. Wrote an A grade Extended Project on cryptography.

SKILLS & LANGUAGES

C • C++ • Java • Python • Assembly (x86, MIPS) • SQL • Git • \LaTeX
Compiler Optimisation • Operating Systems Development • Multithreading