

# THOMAS POINTON

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## EDUCATION/AWARDS

**M.Eng. Computing, Imperial College London**, Final year, 2016-2020

- Top 10% of Computing students: Dean's List for Academic Excellence 2018, 2019. First class (80%).
- Palantir Prize: best 3<sup>rd</sup>-year group project for software engineering excellence.
- Netcraft Prize: top 10% of a CTF-style exam.

A Levels: A\*A\*AA in Maths; Further Maths; Physics and Computing. AEA Advanced Maths. GCSEs: 10 A\*s.

## WORK EXPERIENCE

**Jump Trading – Production Engineer Intern, Linux Team**, Spring/Summer 2019

- Designed and configured an on-prem Kubernetes cluster. Contributed to cloud-native open-source.
- Developed performance-monitoring services. Found and debugged production performance issues.
- Worked closely with the Linux kernel, networking stack and common network protocols.

**Skyscanner – Software Engineer Intern**, Summer 2018

- Architected, developed, load-tested and deployed a new consumer-facing Java microservice, serving all B2B pricing API requests. Hosted on AWS, this replaced a legacy system in an expensive data center.

**Imperial College London – Research Intern**, Summer 2017

- Optimised and extended a compiler in Ocaml, used for static verification of JavaScript code.
- Increased compilation speed. Added termination checking and support for proof lemmas.

**Imperial College London – Undergraduate Teaching Assistant**, October 2018 – Present

- Selected to teach Haskell/Java to a small group of first-years and grade programming assignments.

**Freelance – Backend/API/Full Stack Web Developer**, 2010 – Present

- Developed and deployed Golang microservices and AWS infrastructure for early-stage startups.

## PROJECTS

**Real-time Football Analytics Platform**, Academic Team Project

Built a distributed event-based platform to collect, analyse and display location data from Bluetooth beacons.

**CommitCoin Cryptocurrency**, Hackathon Team Project

Implemented a POC peer-to-peer fully distributed cryptocurrency in Go, based on the bitcoin white paper.

**PintOS**, Academic Team Project (First Class)

Added multithreading; advanced scheduling; virtual memory and more to a skeleton operating system in C.

## SKILLS/INTERESTS

Go; Rust; C; Python; Java; JavaScript; React. Docker. Kubernetes. Networking. AWS. Linux. OSS Contributor. Drummer. Drum tutor. Member of the Live Music society. RYA Level 3 sailor.