

# Paul Nion Vestergaard Larsen

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London, UK

## About Me

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- I am energetic and driven, with an insatiable curiosity and a self-starter attitude. I am also a team player, proactively engaging with my teammates to ensure a structured and committed approach to our respective tasks.
- International upbringing - fluent in English, French, and Danish. Learnt Russian in secondary school.
- Experienced Linux, macOS, and Windows user.
- Personal projects:
  - Telegram group management bot. Growing rapidly, with 1.5 million+ users at time of writing. (Python)
  - Fully concurrent Telegram bot library making extensive use of goroutines and go synchronisation primitives. (Go)
  - More available on GitHub.
- Hobbies include: rock-climbing, surfing, sailing, swimming, and rowing. An avid reader, I also enjoy spending time with friends.

## Experience

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### Improbable

London, UK

SITE RELIABILITY ENGINEERING INTERN — Distributed simulation software startup.

April 2018 - September 2018

- Large amounts of infrastructure and engineering velocity work with a tightly connected team of engineers.
- Upgraded the CI infrastructure to support remote build and test caching.
- Built tools to help optimise code review processes via static code analysis techniques, drastically reducing PR turnaround time.
- Experienced using Go in a production environment, a large involvement in Improbable's Bazel build system.

### Shazam

London, UK

SOFTWARE ENGINEERING INTERN — Popular music recognition app.

July 2017 - September 2017

- First hand experience with agile software development, working closely with a small team.
- Developed using Docker, Kubernetes, and Puppet. Interacted with GCP and AWS, deploying multiple projects to production.
- Implemented and delivered a Machine learning solution for predicting future top 10 songs in the charts. (Patent Pending)

### Foster + Partners

London, UK

INTERN — International architecture practice.

June 2012

- Part of an international, multidisciplinary team, designing a Hotel in Sao Paolo.
- Tools used: Bentley Microstation, the Autodesk suite, and Adobe Photoshop.

### Delicat's

London, UK

WAITER — High end luxury catering.

April 2015 - Present

- Learnt to deliver high quality personalised customer service while under pressure.

## Education

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### Imperial College London

London, UK

4TH YEAR, MENG IN COMPUTING

September 2015 - Present

- **1st Year: 2:1**
  - Favourite courses: Java, C, Logic, Databases.
  - Final group project: Bare metal tower defence game in C and ARMv7 Assembly, running on a Raspberry Pi. Enjoyed the simplicity of writing pure bare metal C. Presented results to audience. Awarded 90%+ grade.
- **2nd Year: 2:1**
  - Favourite courses: Software Engineering Design, Compilers, Operating Systems, Concurrency, Networks.
  - Pintos - Operating System. With a team of 4, implemented Thread Scheduling, System Calls and Virtual Memory Management for a Linux-based OS written in C. Great learning experience working on OS concurrency. Awarded 80%+ grade.
  - Final group project: a decentralised distributed computing network running on mobile phones. Based on MapReduce, it involves an Android App, a website and a server to handle task distribution. Particularly enjoyed using the Flask python framework. Presented results to audience. Awarded 70%+ grade.
- **3rd Year: 2:1**
  - Favourite courses: Distributed Computing, Network and Web Security, Information and Coding theory.
  - Final group project: Whiteboard live coding. Live handwriting recognition tool to augment interview whiteboarding sessions. Final implementation involved custom neural networks and extensive post character recognition code fixing, with an option to project results back on the whiteboard. Awarded 90%+ grade.
- **4th Year: In Progress**
  - Chosen courses: TBC. Strong interest for scalable, distributed, and concurrent systems.
- **Overall:** Vast experience with Go, Python, Java, Haskell, C, and C++. Capable in SQL, Intel NASM, ARMv7 Assembly, and Prolog. Also obtained experience with HTML, CSS, and JavaScript.