


## EDUCATION

- **BSc Computer Science** – University College London – 2019-2022

Have consistently achieved high grades. Notable coursework (able to provide code upon request):

- A journey planner for the  London rail network (tube & others) entirely in C.
  - \* Shows paths with least station, least interchange or paths that avoid certain fare zones.
- A Tetris bot in Python which can reliably keep itself alive long enough to reach a 1000 blocks limit, and scored 3rd place in the 140 persons class.
- Designed and wrote a system specification for a hypothetical good delivery service for vulnerable people during COVID, matching requests with volunteers with an efficient algorithm.




- **A-Level** – (Shenzhen, China) Nanshan Chinese International College – 2017-2019

Math, Further Math, Physics and Economics – A\*A\*A\*A\*


## SKILLS

- Languages: Rust, JavaScript/TypeScript, Python, Go, Java/Kotlin, C++;  $\text{\TeX}$ .
- Web development: React/[Svelte](#), Nodejs, Webpack. Plain CSS & SCSS.
- Linux (scripting, programming, server administration and some understanding of the inner-workings), Git, Docker. Some basic experience with OpenGL and Android native development.
- Security (web & native) & Basic cryptography. [Interactive blog article on certificate transparency](#)

## PERSONAL PROJECTS

- [status.maowtm.org](#) (Rocket framework and SQLite database.
  - Frontend built with [Svelte](#).
- [paper.sc](#) (protobuf for storage format and [zstd](#) for compression.
- Uses the Linux termios API to execute process in monitored PTY, and a Golang binding of [libvterm](#) to parse terminal escape sequences (to get the color and position of characters right).
- **go-ecbpass** (crypt to derive passwords for each website based on its domain and the user's master password.

## COMPETITION

- Facebook – Hack-a-project – 29 Feb 2020
  - Team of 4 people won second-place (against 8 other teams)
  - Designed a basic React & Nodejs App ( for bringing people who want to watch the same movie together.

## OTHER INTERESTS

- Able to do some basic 3D modelling with Blender ([some works I've done](#)); also interested in animation and design.
- Studying university-level mathematics on my own: Analysis, Linear Algebra, Differential Equations.