

DANIEL SIMOLS

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EDUCATION

Hills Road Sixth Form College

A Levels

September 2018 - July 2020

- Best State Sixth Form in the UK, in Cambridge
- A*AAA
- Developed Sixth Form's App, Anime Society Leader

Imperial College London

Computing MEng

October 2020 - June 2024

- Predicted 2:1 Honours with Associateship
- Wrote custom OS kernel
- Championed Haskell/Elixir/Prolog/C/C++/Kotlin
- Expert knowledge of Maths & Computer Science
- **Thesis - Fuzzing WebGPU (in prwrestled ogress)**

PROJECTS

BYKE Internship

2023/05/01 - 2023/09/15

- <https://bykeltd.co.uk/>
- Made CTO-level decisions as the only developer in the startup
- Redesigned and built a modern website in just under 2 months, leading to 2x profit immediate-term and making BYKE respected among OxBridge students
- Singlehandedly founded database, back-end, and front-end
- Responsible for GDPR compliance, Stripe payments, SEO, company domains, API access control, database backups, etc

Discord Fox

2023/08/26 - Current

- <https://discordfox.com/>
- I shot for creating my own commercial product
- Learned to advertise
- I give the user full-fledged profile customisability, and enable people to find friends that match their interests and personality
- It did not work out, but I have learned from it and want to try again
- I learned aesthetic website design, along with creating creative assets such as the fox logo

Personal Website

Ongoing

- <https://danielsimols.net/>
- Devised design to show off my authentic self
- Set up Continuous Delivery for easy updates

Hexagon-based keyboard

Ongoing

- <https://danielsimols.net/scrawler/>
- I'm designing and building a unique keyboard with hexagonal keys. The link shows my first prototype - I need funds to create a better version
- Learned to become comfortable breaking ground no one has covered before

SKILLS

Proficient Languages: Next.js, React, Node, Express, TypeScript, JavaScript, PostgreSQL, BASH, Python

Libraries: Bootstrap, Tailwind, SASS

Tools: Linux, Git, AWS, Docker

EVENTS

DataProc Competition: Won a competition on fast database processing sponsored by Meta

ICHack23, ICHack24: Innovated an EdTech web app that utilised our AI to quiz you on ASL by using your camera to detect hand signs