

Daniel Simols

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EDUCATION

Imperial College London

Computing MEng

Expected June 2024

- Currently on track for a 2:1
- Advanced Computer Architecture, Advanced Databases, Cryptography
- Machine Learning, Computer Vision, Distributed Algorithms

PROJECTS

BYKE

2023/05/01 - 2023/09/15

- <https://bykeltd.co.uk/>
- I built the whole website and backend myself from scratch and made public after just below 2 months
- Also responsible for database admin, SEO, handling multiple domains / domain redirection
- Experience encrypting user data, Stripe API for payments, database backup automation, managing Linux servers, logging, RESTful API user access control, PostgreSQL programmatic query building, AWS S3, GCP, Python scripting, automated email sending, client-side image compression, responsive design, Google Maps API
- Built on Next (React), hosted with custom Node server, Express, TypeScript, PostgreSQL, Git, AJAX, Bootstrap
- This was an internship with minimal expectations on me, but I used my initiative to bring great value to the company

DeleNo

2023/07/11 - 2023/07/18

- <https://deleno.co.uk/>
- Built on Next (React), hosted with custom Node server, on a rented Linux server

Maths Moon

2022/10/12 - 2023/01/13

- <https://maths-its-frontend.herokuapp.com>
- Sample Teacher Login: **mrclark, a**
- Sample Student Login: **somberLemur9, W9Ds5**
- Built on React, TypeScript, Python, Flask, and Heroku, in group of 6
- Used JIRA, BitBucket and Slack, Scrum approach
- It's an intelligent tutoring system for upper KS2 maths

Personal Website

Ongoing

- <https://danielsimols.net/>
- Built on plain HTML/CSS/JS, Apache on rented server

Hexagon-based keyboard

Ongoing

- <https://danielsimols.net/projects/>
- I'm designing and building a unique keyboard with hexagonal keys. The link shows my first prototype - I'm in the midst of creating a better version

TECHNICAL SKILLS

Languages: Next, React, TypeScript, JavaScript, PostgreSQL, BASH, Python

Tools: AWS, Git, GitHub, Docker, JIRA, BitBucket, Heroku

ACHIEVEMENTS

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

ICHack23: Participated in Imperial College's 2023 hackathon