

# Daniel Simols

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## EDUCATION

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### 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

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### Tutoring System Web App

Finished Jan 2023

- In group of 6, worked on a webapp using React, TypeScript, Python, Flask, and Heroku
- Using JIRA, BitBucket and Slack to manage group work, with frequent in person standups and feedback from our representative end user.
- It is an intelligent tutoring system for upper KS2 maths.
- <https://maths-its-frontend.herokuapp.com>
- Sample Teacher Login: mrclark, a
- Sample Student Login: somberLemur9, W9Ds5

### Student Hive App

Finished June 2022

- Used Android Studio in group of 4 to develop an Android app with continuous deployment for user testing
- The app enables students to find other students to study with - to encourage studying and to combat loneliness
- Focus on designing for real people; implement skeleton, then consult possible users and develop up

### Personal Website

Ongoing

- <https://danielsimols.net/>
- Uses plain HTML/CSS/JS, hosted on my private 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

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**Languages:** Javascript, Typescript, React, Python, Java, Kotlin, SQL, BASH, Elixir, Haskell, C, C++

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

## ACHIEVEMENTS

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

**ICHack23:** Participated in Imperial College's 2023 hackathon

**Game server owner:** In the past, ran a game server for my school. Netted 117 unique players. Learned to manage a server remotely and manage people, and advertising to people in the school

**Led a club:** Was leader of a club of 15+ weekly attendees, learned clear communication and leading weekly activities

**Volunteered at Tech Studio:** Helped with teaching and inspiring children about STEM through activities

## INTERESTS

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I love to build things for other people, whether it's a website, app, or a keyboard. Particularly interested in web dev. I like to read around web dev, e.g. Steve Krug's "Don't Make Me Think"