

# Ali Zaini

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## Education

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### King's College London (2019-Present)

**Computer Science MSci**, Second Year

KCL Gaming & Esports Society, King's Equity Research Group

### Queensmead School (2011-2018)

**4 A Levels:** Mathematics (**A\***), Further Mathematics (**A**), Computer Science (**A**), Physics (**A**)

**10 GCSEs:** **9A\*s**, **1A** (including A\* in Mathematics and English)

## Experience

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### Teaching Assistant at King's College London (2020-Present)

- Prepared and taught lessons for online and in-person classes with 20+ students
- Taught Java and professional programming practices to first year students with varying levels of programming experience
- Supported students in with coursework and class work queries
- Achieved very positive feedback from student evaluations for my classes

## Project Experience

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### HoodHood Keyboard (Mobile app) (hoodhood.zaini.me)

- Published a mobile keyboard which automatically transliterates what is typed from English to Arabic
- As the user is composing a word, it is sent to an API and words are suggested in the candidate view in Arabic. This involves asynchronous calls to the API so that the user can continue to type while suggestions are updated
- Studied open source keyboards, including AOSP's LatinIME. Completed in three weeks with no prior mobile development experience due to strong time management skills and use of Kanban board
- Developed in Android Studio with Java/Kotlin and XML for the layouts

### 'Yet another link shortener' (yals.zreo.me)

- Yals is a link shortener that allows you to set custom URLs, expiration dates and manage them from your account
- Front-end designed using React and Chakra UI. The backend involves GraphQL as opposed to a REST API which has been used in other projects
- Data is stored on MongoDB and Redis and cookies are used to store the user's session details if they decide to login for extra features

### Polling Web Application (poll.zaini.me)

- Created a quick and easy to use polling application that allows you to create a poll with multiple questions, select which ones are required and also set an encrypted password and easily share
- Uses MongoDB to store polls with a front-end created using React with Express/Node running the server and API, all hosted on Heroku
- Utilises cookies to mitigate multiple votes from the same person. Encrypts passwords using bcrypt. Results page includes visual charts created using Chart.js

### Experience with APIs

- Wrote API wrappers for two transliteration services (Yamli & Google) to be used in the development of my mobile keyboard. These enable the user to import a library and use it to enter a string and have it transliterated to many different languages by calling a simple function in Python
- Developed a Telegram chatbot which allows the user to send a YouTube link and have it downloaded and sent to them in any quality with the use of a simple inline keyboard

### Magnet Web Scraper

- Released a tool to scrape and load torrent magnet links to the user's BitTorrent client or directly download .torrent files
- Made changes based on user suggestions and pull requests
- User may specify a query and the option to either automatically load the magnet or download the .torrent files
- Created in Python using the BeautifulSoup HTML parser

## Skills

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- Experienced in Python, Java, JavaScript, HTML, CSS, MongoDB, Express, React, Node.js, C++, Ruby on Rails
- Familiar with Assembly, Kotlin, Flutter, Dart
- Proficient with Version Control (Git, GitHub)
- Testing: JUnit, Travis-CI, PyTest
- Fluent in English (native) & Arabic with excellent communication skills, both written and verbal