

Mohsin Kaleem

SOFTWARE ENGINEER

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Education

The University of Sheffield

BSC COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE, **FIRST CLASS HONOURS**

Broomhall, Sheffield

Mar. 2018 - June. 2021

Thomas Rotherham College

A LEVELS (2A + B)

Mathematics (A), Computer Science (A), Physics (B)

Moorgate rd., Rotherham

Aug. 2016 - Jun. 2018

Skills

Languages JavaScript, TypeScript, CSS, SCSS, Python, Java, C#, Ruby, Go

Frameworks React, Vue, JQuery, Django, ExpressJS, Sinatra, Flask, MaterialJS (Vuetify), Swing, Scrapy

Projects

Puddle

github.com/mohkale/puddle

A DASHBOARD FOR MANAGING TORRENTS USING MODERN WEB STANDARDS

- Designed a React based frontend. Applying functional components and using Redux stores to optimize page responsiveness and re-rendering speed.
- Interfaced with an ExpressJS backend through a RESTful API. Incorporating type safe interfaces to guarantee the structure of frontend requests and backend responses at compile time.
- Optimized to be able to display over 200 concurrently downloading torrents with no noticeable UI lag.
- Persisted notification history in a NoSQL database. Creating API endpoints and UI components to connect and retrieve history on demand.
- Built fully automated CI/CD pipelines, through GitHub Actions, to automatically perform regression tests and release deployments.

Twaxi-Admin

FULLSTACK MANAGEMENT APPLICATION FOR A TWITTER BASED TAXI SERVICE

- Collaborated with a team of 6 others in an Agile environment, taking a leading role in team organisation, supervision and task allocation.
- Developed scripts to automate content generation and deployments. Also assisting in a supporting capacity with other teammates, helping work through environment issues and feature bugs.
- Lead development on the backend twitter connection, including an asynchronous update system to automatically read in new tweets and keep the frontend and backend states in sync.
- Optimized storage of tweets in the Sqlite database using a recursively defined relationship between records.

Publisher Management System

CROSS PLATFORM PUBLISHER MANAGEMENT SYSTEM WITH SWING BASED GUI

- Identified key features and story cards from an abstract description of the publisher's business and the expected features for the system.
- Directed a team of three other developers through an Agile development plan, with implementation sprints lasting 2 weeks and progress meetings twice a week.
- Designed and implemented the schema for the MySQL database from the story cards. This included creating a rudimentary Data Access Object system which mapped Java classes to database tables and Java objects to database records.
- Spearheaded development on core interface features for the system. Including creating and implementing logic for the login, registration, and journal management views.

Professional Experience

Upwork

(remote)

FREELANCE DEVELOPER

Oct. 2018 - Present

- Designed a web scraper, using Scrapy, to automatically read company names from an Excel document and then find and populate related information from a listing site. Successfully ran at a rate of 4 URLs per minute and managed to fill out information for over 7000 companies in under 2 days.
- Taught programming concepts to students using Python and Flask, while organising lesson plans and suggesting project ideas.
- Implemented a Selenium based web-scraper to extract dynamically loaded content from an Angular web app. Involved automating interaction with webforms and using the nonoCAPTCHA library to attempt to bypass Captchas.