Shozab Anwar Siddique

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SUMMARY

Aspiring software engineer with a strong passion for software development and crafting scalable, user-friendly applications. Experienced in collaborating with agile teams to deliver high-quality software solutions.

EDUCATION

KING'S COLLEGE LONDON - Bachelor of Science in Computer Science   Sept 2021 – May 2024

Relevant Modules: Data Structures and Algorithms, Programming Practice and Application, Software Engineering Group Project, Practical Experiences of Programming, Database Management Systems, Introduction to Software Engineering, Introduction to Artificial Intelligence.

PROJECT EXPERIENCE

Software Engineering Group Project | KING'S COLLEGE LONDON
API oriented client-based financial application   Jan 2023 – Mar 2023
- Lead a team of 8 to build a **React Native/Django REST** financial application, facilitating users to track bankcards, credit cards, stocks, and crypto assets, offering real-time insights through multiple graphs and data analysis by integrating **APIs**.
- Enhanced user engagement by 30% through the creation of an interactive pie chart that provides an overview of an individual's portfolio. This chart allows users to navigate into specific categorial pie charts, further decomposable to inspect individual assets.
- Developed reusable frontend modules, reducing overall development time by 20% and enabling the seamless integration of interactable analytical candlestick charts, pie charts and line charts across the application.

Music school management system   Oct 2022 – Dec 2022
- Collaborated in a team of 4 to create a **Django** web application enabling students sign up, request lessons depending on availability, and access their lesson details along with balance information and pricing details for lessons.
- Implemented CRUD endpoints, empowering admin users to manage 500+ lesson requests, schedule lessons, modify school term dates and access a record of student transactions.
- Empowered parents to register and book lessons, link accounts with child users and book lessons for them for convenience.
- Fortified code integrity by collaborative team code reviews and implementing robust **automated testing** methodologies.

Practical Experiences of Programming (C++/Scala projects) | KING'S COLLEGE LONDON   Oct 2022 – Nov 2022
- Programmed Countdown/Sudoku Solvers, utilizing efficient data structures to reduce program complexity by 40%.
- Achieved a 30% increase in program speed by identifying and rectifying bottlenecks in the codebase.
- Improved program efficiency, resulting in up to 60% reduction in total runtime for the Knight's Tour Problem.

Programming Practice and Applications (Java projects) | KINGS COLLEGE LONDON   Sept 2021 – Apr 2022
Jurassic predator-prey ecosystem simulator
- Simulated a Jurassic ecosystem with 5 dinosaur species, 2 predators competing for food sources with precise parameter fine-tuning for population stability.
- Incorporated gender-based breeding and a day-night cycle to simulate species-dependent behaviors, enhancing realism.
- Introduced plant systems, a disease propagation model, weather dynamics affecting plants and predator speed and visibility, and speed evolution for diverse dinosaur traits.

Airbnb London rental property viewer application
- Collaborated in a team of 4 to build a multi-window app for comparison of rental properties based on location and price range.
- Devised an interactable map panel using **JavaFX**, showcasing 32 London boroughs labeled with property availability indicators. Users can effortlessly filter and explore 53,000+ property listings by borough, with the option to display individual properties on Google maps along with property-specific details.
- Integrated 10+ statistics options tailored to user-chosen price ranges, enhancing the application's utility for neighborhood research and property selection.

PERSONAL PROJECTS

Cookify
- Crafted a **React/Django REST** web application which allows exploration & creation of user-defined recipes.
- Engineered **CRUD endpoints** with **RESTful architecture** to manage and manipulate recipe data, streamlining data interactions for enhanced performance.
- Devised a cutting-edge feature that dynamically generates personalized shopping lists, based on ingredients needed for users' planned meals, promoting convenience and ease in meal preparation.
- Seamlessly integrated the **Edamam API**, offering access to a database of 2 million recipes, assisting efficient recipe discovery and exploration within a diverse range of recipe articles.

SKILLS

Engineering: Frontend, Backend, API Implementation, RESTful Web Services, Agile Methodologies (Kanban, Scrum).
Programming Languages: JavaScript, Python, Java, C++, Scala, TypeScript.
Frameworks & Tools: React/Native, Django/REST, Redux, HTML/CSS, Git/GitHub, Bootstrap, Postman, Linux/Windows.