JHELAN SUGGUN

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Skills

Programming Languages: Python, C, Javascript, Typescript, SQL
Web Development: HTML, CSS, SASS, React, NextJs, GraphQL, jQuery, NodeJs/Express
Databases: MongoDB, MySQL, Firebase
Other: GIT, GitHub, Windows, Linux, AGILE, OOP

Education

UNIVERSITY OF SOUTHAMPTON   Southampton, UK
MEng Mechanical Engineering, First Class Honours   2018-2022
Coursework: Responsive Systems, Autonomous Line Tracking Robot

LOXFORD SCHOOL   London, UK
Mathematics – A*, Physics – A, French - B   2015-2017

Projects

Fireblog | Link
- Constructed using JavaScript, React, and Firebase.
- Developed a user-friendly blog platform that facilitates diverse authentication methods including email/password, Google, Github, and Facebook.
- Prioritised user data security by implementing robust authentication and authorization, ensuring posts are protected from unauthorised edits.
- Integrated Firebase for efficient data storage and streamlined post creation with image uploads.

Quiz Master App | Link
- Engineered with JavaScript, React, Node.js, and MongoDB.
- Crafted a secure full-stack application that emphasizes data protection, encrypting user details using bcrypt and JWT token encryption.
- Adopted a RESTful API approach, designing clear endpoints and optimizing data management. Handled large datasets by implementing efficient storage solutions.
- Utilised mongoose for seamless interactions with MongoDB, ensuring data is organized and accessible.

Social Stock Analysis | Link
- Designed using JavaScript, React, Node.js, Express.js, and RESTful APIs.
- Introduced a market sentiment visualisation tool that presents data insights through intuitive pie and bar charts.
- Integrated multiple APIs to provide real-time data, empowering users with actionable stock market insights.
- Prioritised a user-centric design, ensuring the tool is responsive across various devices.

Odometry
- Engineered with C, Arduino microcontroller, and DC motors.
- Devised a line-tracking robot focused on path optimization. Implemented PID control to enhance its efficiency and accuracy.

Work Experience

NHS   London, UK
Band 3 Admin & Clerical   Apr 2023 - Present
- Collaborated across departments, enhancing patient safety protocols, and improving patient data accuracy using various IT systems to elevate healthcare standards.