Abdi Jama

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Education

BEng Chemical Engineering, Queen Mary University of London (2:1)   2019-2022

Modules Including:

- **Final Year Project** – plan, create, simulate and analyse a water treatment plant to effectively remove lead contamination from source river water (69%)
- Heat Transfer and Fluid Mechanics (70%),
- Mass Transfer and Separation Processes (80%), Control Systems Analysis and Design (75%),
- Thermodynamics (70%),
- Advanced Safety Engineering (70%),

LAE Tottenham, London   2017-2019

A Levels: Mathematics(A), Biology(B), Chemistry(B)

Experience

Octopus Energy (Intern), London   2021-2022

- Contributed to programming, testing, and overall software development lifecycles
- Collaborated with cross-functional teams.

Mathematics Tutor, Best Tutors, London   2020-present

- Providing one on one tutoring for up to 3 children per week
- Developed strong communication skills by articulating complex concepts in a simplified manner

Extra-Curricular Activities/Projects

- Created personal homelab server machine using docker to run different containers/services such as Nextcloud, MySQL, a custom job application tracker dashboard, Pi-hole(DNS ad blocking) and Redis along with acting as a backup file server.

- Self-hosted personal site on home server using Nginx. Implemented .conf file to handle incoming requests on port 80(HTTP) and port 443(HTTPS) to serve intended files on the filesystem.

- Developed a secure full-stack password manager with encryption for safe storage of unique passwords. Designed a responsive website interface for seamless user experience. Implemented efficient pagination using Prisma ORM for optimized password record management.

- Developed a real-time chat application using Firebase, enabling seamless communication between users.

- Created an ecommerce site which displays products per category and allows users to add and remove products in their cart which is stored as a session using Redis.

Other Skills

IT: Python,C,ReactJS,NextJS,JavaScript,Relational Databases (MySQL), Django,Basic AWS Deployment, Docker, Typescript,Tailwind,Redis,Nginx,Linux,Computer Networking, IT Support, DNS,DHCP, Windows, Active Directory ,Office 365,Microsoft Excel,Water Treatment, Consulting, Analysis, Logical Thinking ,Process Engineering, Chemical Engineering, Engineering, Aspen HYSYS Simulation Software,Data Analysis,Programming