

# SAIF NASIR

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## SKILLS

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C++, Java, Python3, JavaScript, Scala, MATLAB, Solidity, SQL | Git, GitHub, AWS, Firebase

## EDUCATION

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### King's College London

Sept. 2022 – July. 2025

- BSc (Hons) Computer Science | Predicted First Class degree | PGLA Leadership Award.
- Inclusive Careers Ambassador: facilitated a workshop about web development, providing hands-on experience into key concepts and tools to over 100 students.
- Clubs: KCL Blockchain, KCL Tech, AI Club, KCL Robotics

## EXPERIENCE

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### Software Engineer | King's Labs

Oct. 2023 – Present

- Designed and implemented a high-performance API using Django on Squarespace infrastructure, enabling real-time portfolio analytics data retrieval and processing.
- Led AWS Amplify project as Project Manager for a media mobile app, overseeing backend development, authentication, and database management, resulting in a streamlined and scalable infrastructure.

### Director of Finance and Logistics | ADMUN - Model UN

Nov. 2020 – Mar. 2022

- Directed a team with 99% accuracy in tracking, recording, and reconciling transactions and expenses.
- Achieved 33% cost savings and 30% revenue growth through financial analysis and strategic initiatives.

### Private Tutor | IGCSE/A-level Tuition

Sept. 2019 – Present

- Delivered one-on-one lessons to enhance academic performance by 55% of students deemed 'at risk'.
- Conducted interactive group tutoring sessions resulting in a 25% increase in active student participation.

## VOLUNTARY

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### Web Developer | LCOY – UNFCCC

Oct. 2023 – Present

- Led Astro-powered web development initiatives resulting in a noteworthy 30% surge in user engagement through implementation of responsive design principles.
- Introduced CI/CD workflows using Netlify, deploying code directly from Git repositories.

## PERSONAL PROJECTS

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### Twitter dApp Clone

- Developed a decentralized Twitter application using Ethereum and Solidity, implementing core functionalities such as tweet creation, character limit, and event emission.
- Deployed and tested the smart contract on the Sepolia testnet, leveraging its stability and accessibility for a smooth development experience.

### Machine Learning and Advanced Algorithms | Stanford Online

- Implemented a custom MATLAB neural network from the ground up to optimize parameters for predicting handwritten digits, resulting in a 99+% accuracy rate.
- Applied unsupervised learning including K-means clustering and PCA for insights from complex datasets.

### Digital Journaling App

- Developed the backend for a digital journaling application using Django REST Framework, implementing features such as creating and sharing templates, mood tracking, multimedia file support, and PDF/RTF export.
- Implemented JWT token-based authentication and collaborated with the frontend team to integrate the backend APIs with the React.js and MUI-based user interface.

### BrainF\*\*\* Interpreter and Compiler

- Developed an interpreter and optimizing compiler for brainf\*\*\* using Scala, implemented features including file parsing, memory management, loop handling, and program generation.
- Optimized the compiler by precomputing jump addresses, eliminating dead code, and combining repeated operations achieving a 4.6x performance improvement on the benchmark program