MOHAMMED ZUHAIR HUSSAIN

Software Engineer

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CAREER SUMMARY

Passionate and driven software engineer with strong full-stack development experience and a 3.91 GPA in Information Technology at Nanyang Polytechnic. Proven ability to lead and collaborate through startup development work, student leadership roles, and AI-powered project initiatives.

TECHNICAL SKILLS

Programming Languages: Python | Javascript/TypeScript | C# | R | SQL

Web Development: React.Js (Next.js) | Node.Js (Express.Js, Hono.Js) | .NET | CSS (TailwindCSS, Bootstrap)

Databases: PostgreSQL, MySQL, SQLite

Tools: Git, Github, Vercel, Figma, Tableau, Microsoft Excel, Linux

SOFT SKILLS

- Critical Thinking
- Problem Solving
- Teamwork
- Adaptability
- Collaboration
- Empathy

EDUCATION

DIPLOMA IN INFORMATION TECHNOLOGY | Nanyang Polytechnic   2024 – 2027
- GPA: 3.91
- Honors:
    - Director's List AY2024/2025 Semester 1 & 2
    - Recipient of NYP Scholarship (O Level Pathway)
- Relevant Coursework: Data Structures & Algorithms, Web Application Development, Software Engineering Practices, Database Management Systems, Information Security, Network Technology

GCSE O LEVEL | Temasek Secondary School   2024 – 2027

EXPERIENCE

FULL STACK DEVELOPER | Initiate Pte Ltd | Singapore | [Initiate](#)   April 2025 – present
- Joined as part of the **founding development team**, contributing to the design of the startup's product from the ground up.
- Led the development of the backend payment infrastructure, integrating **Stripe** for seamless seller payouts and customer billing.
- Engineered the community features, including **threaded posts, likes, comments,** and **topic-based filtering**.

PROJECTS

POLYGURU | Student Productivity Platform | [Polyguru](#)   2024 – present
- Built a full-stack platform with another student to enhance student productivity using **Generative AI** tools and collaborative features.
- Developed AI-powered tools for **note summarization, practice paper generation,** and **flashcard creation**.
- Implemented a **built-in student social feed** for Q&A, resource sharing, and peer support.
- Tech stack: **Next.Js, TailwindCSS, Prisma ORM**

EXTRA CURRICULARS

HEAD OF OPERATIONS | NYP Swift Student Interest Club   2022 – 2023
- Manage the planning and execution of club activities and work closely with other committee members to ensure smooth coordination and strong engagement among members.
- Collaborated with Apple Singapore to hold workshops and events for students

OPERATIONS ASSOCIATE | NYP Techopreneurship Club   2025 – present
- Contribute to the execution of events by assisting with operations and team coordination ensuring executions of tasks are timely

VICE-PRESIDENT | Young Ambassadors   2022 – 2023
- Helped organize and emcee school and community events focused on **national identity, and cultural awareness**.
- Collaborated with teachers and external partners to plan outreach initiatives and ceremonies.

VICE-CAPTAIN | Softball Team   2022 – 2023
- Helped lead the team to a **Top 6 national placement** in the Singapore B Division Championship.
- Coordinated team logistics and trainings alongside coaching staff.

FINALIST | Singapore Science & Engineering Fair   2023
- Selected as one of the top student research projects in Singapore.
- Presented a study on alternative environmentally-friendly solutions to cleaning up oil spills

CERTIFICATIONS

AWS CERTIFIED CLOUD PRACTITIONER | Amazon Web Services (AWS)   Issued 2025 April
GOOGLE CYBERSECURITY SPECIALIST| Coursera   Issued 2025 March
GOOGLE DATA ANALYTICS SPECIALIST | Coursera   Issued 2024 August