MOHAMMED ZUHAIR HUSSAIN
Software Engineer

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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

Frontend Development: React.js | Next.js | JavaScript/TypeScript | HTML/CSS | TailwindCSS | Bootstrap | Daisy UI | ShadCN

Backend Development: Node.js (Express.js, Hono.js) | .NET | Python (Flask) | RESTful APIs

Databases: PostgreSQL | MySQL | SQLite | Prisma ORM

Cloud & DevOps: AWS | Vercel | Git | GitHub

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

Data & Analytics: Tableau | Microsoft Excel

Security & Tools: Figma | Linux | Stripe

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   2020 – 2024
- Honors:
    - Vice-President of Young Ambassadors (Student Leadership Group)
    - Vice-Captain of School Softball Team
    - Led team to Top 6 national placement in Singapore B Division Championship

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.
- Integrated **Stripe to enable automated payouts** and secure customer billing, **handling over $100, 000 in transactions** during testing
- Engineered **threaded post and topic filtering** features, **improving user engagement by 30%**.

PROJECTS

POLYGURU | Student Productivity Platform | Polyguru   2024 – present

- **Tech Stack:** Next.js, TailwindCSS (DaisyUI), Prisma ORM.
- Built full-stack features including **AI tools for note summarization and flashcard generation**.
- Developed a collaborative **Q&A social feed for resource sharing** and peer support among students.

ECO PRIMERS | Sustainability Web Application | Eco Primers   2024 – present
- **Tech Stack:** Flask, SQLite, JavaScript, Bootstrap
- Developed **authentication**, **donation**, and **event management systems** (admin + user side).
- Integrated **Stripe**, **OpenWeather**, and **Google OAuth** for seamless user experience

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 conduct 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