

# MOHAMMED ZUHAIR HUSSAIN

Software Engineer

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## SUMMARY

Passionate and driven software engineer with a strong foundation in full-stack development and a 3.91 GPA in Information Technology at Nanyang Polytechnic. With a background in leadership and startup development, I am deeply interested in how technology can solve real-world problems. I enjoy building scalable web applications and exploring the use of AI to enhance user experiences.

## 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

**Other Tools:** Tableau | Microsoft Excel | Figma | Linux | Stripe

## SOFT SKILLS

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

## EDUCATION

**DIPLOMA IN INFORMATION TECHNOLOGY** | Nanyang Polytechnic | GPA: 3.91 2024 – 2027

- 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 – 2023

- Honors:
  - Vice-President of Young Ambassadors (Student Leadership Group)
  - Vice-Captain of School Softball Team placing Top 6 in National School Games B Division

## 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 **GPA Calculator** and **AI tools for test paper 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

#### **POKEMON POCKET** | Pokemon Game Application

2025 – present

- **Tech Stack:** C#, Spectre.Console
- Developed an interactive console Pokemon game with features like catching, battling, trading, quests and collecting card packs
- Utilized Spectre.Console to enhance UI/UX with styled text, menus and animations

### EXTRA CURRICULARS

#### **HEAD OF OPERATIONS** | NYP Swift Student Interest Club

2024 – present

- Manage the planning and execution of club activities to ensure smooth coordination and strong engagement among members.
- Collaborated with **Apple Singapore** to conduct workshops and events for **over 50 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 National School Games 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

### HOBBIES AND INTERESTS

#### **SPORTS**

- Vice-Captain of school **softball team**; also **played basketball and football** in primary school, and currently part of the **hockey team**

#### **PHOTOGRAPHY**

- Enjoy capturing everyday moments through images

#### **CODING CHALLENGES**

- Participate in **Advent of Code** for algorithm practice through fun and creative challenges

#### **VOLUNTEERING**

- Passionate about community service, actively **volunteering at my neighborhood's Residents' Committee** to support local events.

### REFERENCES

**DR BRANDON OOI** | Lecturer, Nanyang Polytechnic | (+65) 6550 1634 | brandon\_ooi@nyp.edu.sg

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