

ZUHAIR HUSSAIN

Software Engineer

Contact

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Education

Diploma in Information Technology

Nanyang Polytechnic | GPA: 3.91

Graduated: 2027

- Director's List AY2024/2025 Semester 1 & 2
- Recipient of NYP Scholarship (O Level Pathway)

GCSE O Levels

Temasek Secondary School

Graduated: 2023

Certificates

AWS Cloud Practitioner | Amazon Web Services (AWS)

Issued: April 2025

Google Cybersecurity Specialist| Coursera

Issued: March 2025

Google Data Analytics Specialist| Coursera

Issued: March 2025

Achievements

Finalist | Singapore Science & Engineering Fair

Issued: March 2023

- Selected as Singapore's top student research projects

About Me

Aspiring Full Stack Developer with a 3.91 GPA in Information Technology from Nanyang Polytechnic and a solid foundation in full-stack development. Passionate about solving real-world problems and using AI to improve user experiences. Excited to grow in a dynamic development team.

Skills

Frontend Development:

- Next.js: Used to build and optimize performant, SEO-friendly web applications for Polyguru and Initiate.
- TailwindCSS: Streamlined UI styling and responsive layouts for Polyguru and Initiate with Tailwind's utility-first approach

Backend Development:

- Node.js (Express): Engineered backend architecture for Initiate with high performance, edge-deployable APIs for payments and AI features

Databases:

- PostgreSQL: Managed relational data models for users, businesses, and posts in Initiate, Eco Primers and Polyguru
- Prisma ORM: Integrated in Polyguru and Initiate to enable type-safe, secure access to PostgreSQL databases.

Cloud & DevOps:

- AWS: Handled backend deployments with S3 for file storage in Initiate
- Vercel: Hosted production-ready frontend build for Polyguru
- Git: Maintained source control and streamlined teamwork through GitHub across all projects

Programming Languages:

- TypeScript: Used extensively in Polyguru and Initiate for both frontend and backend logic
- Python: Analyzed and modeled performance metrics in BoostBank, a project focused on optimizing banking KPI
- C#: Developed PokemonPocket, a command-line game using Spectre.Console for the user interface

Other Tools:

- Tableau: Visualized multi-regional and quarterly performance trends for BoostBank using interactive dashboards
- Figma: Created wireframes for Eco Primers and Initiate interfaces.
- Stripe: Used for payment processing across platforms, including donation logic in Eco Primers and service billing in Initiate

Hobbies & Interests

- Sports
 - Vice-Captain of softball team
 - Basketball and football in primary school
 - Current hockey team member
- Coding Challenges
 - Completed 30-day Advent of Code challenge to sharpen algorithm skills

Languages

- English | Native Proficiency
- Hindi | Native Proficiency
- Urdu | Native Proficiency

References

- Dr Brandon Ooi | Senior Lecturer | (+65) 6550 1634
- Ms Sun Yuanxin | Senior Lecturer | (+65) 6550 1611
- Keshuram Ramani | CEO, Initiate | (+65) 8023 0416

Experience

- Full stack developer | Initiate Pte Ltd | [Initiate](#) 2025 - present
- Founding team member involved in designing and building the core product from scratch.
 - Integrated Stripe for secure billing and automated payouts, processing over \$10,000 in test transactions.
 - Developed posts and topic filtering, boosting user engagement by 30%

Projects

- Initiate | AI Solutions Marketplace | [Initiate](#) 2025 - present
- Built core payment infrastructure and AI-powered resource hub.
 - Integrated a community page for startup–business collaboration
- Polyguru | Student Productivity Platform | [Polyguru](#) 2024 – present
- Built full-stack features including AI tools for test paper generation and a collaborative social feed for resource sharing among students
- Eco primers | Sustainability Application | [Eco Primers](#) 2024 – 2025
- Developed authentication, donation, and event management systems
 - Integrated other third-party software like Oauth and OpenWeather for a seamless and user-friendly experience
- Pokemon pocket | Pokemon Game Application 2025 – present
- Developed an interactive console Pokemon game with features like catching, battling, trading, quests and collecting card packs
 - Enhanced user experience with appealing menus and animations

Leadership

- Head of Operations | NYP Swift Student Interest Club 2024 – present
- Manage the planning and execution of club activities to ensure coordination and strong engagement among members.
 - Collaborated with Apple Singapore to conduct events for 50+ students
- Operations Associate | NYP Technopreneurship 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
- Organize school and community events focused on national identity, and cultural awareness.
 - Collaborated with teachers and external partners to plan initiatives
- Vice-captain | Softball Team 2022 – 2023
- Co-lead the team to a Top 6 placement in the National School Games