

Dhruv Sharma

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EDUCATION

National University of Singapore & NUS College

Singapore

Bachelor of Computing in Computer Science (Honours), Minor in Philosophy

Aug 2023 – May 2027

• **Coursework:** Software Engineering, Database Systems, Machine Learning, Data Structures, Algorithms, Networking.

SKILLS

Languages: TypeScript, JavaScript, Python, Java, SQL, C/C++, HTML/CSS, GDScript

Frameworks: React, Next.js, Node.js, Fastify, Express, Socket.IO, Tailwind, OpenAPI, Firebase

Tools: Git, Docker, GitHub Actions, AWS, Figma, Postman

Spoken Languages: English, Hindi, Urdu, Spanish (Elementary)

EXPERIENCE

Full-Stack Developer

Aug 2024 – Feb 2025

StuCo (Social Platform for Student Consultation)

Singapore

- Engineered a scalable mentorship platform using **React**, **Node.js**, and **MongoDB**, designing RESTful APIs to handle complex user scheduling and data retrieval.
- Architected a low-latency real-time chat infrastructure using **Socket.IO**, enabling instant bi-directional communication for a projected user base of 500+.
- Translated UI/UX requirements into technical specifications, defining the **component hierarchy** and **API data contracts** to ensure seamless frontend-backend integration.
- Established a comprehensive testing workflow using **Postman** for API endpoint validation, ensuring high backend reliability and reducing production errors.

Ground Response Force Officer

Aug 2021 – Aug 2023

Singapore Police Force

Singapore

- Led first-response teams in critical incidents; awarded the **Commander's Award (4x)** for demonstrating exceptional leadership, composure, and operational excellence in high-pressure situations.

PROJECTS

Langur Conservation Platform | *React, Fastify, TypeScript, OpenAPI, Docker*

Jan 2026 – Present

- Architected a type-safe system using **Fastify** and **React**, implementing a code-first **OpenAPI** workflow to auto-generate clients and enforce strict API contracts.
- Engineered an **offline-first** synchronisation engine that caches field data locally and performs **opportunistic uploads** upon network restoration, ensuring reliability in remote areas.
- Enforced code quality standards via **Husky** pre-commit hooks and **Vitest** pipelines to maintain a zero-regression deployment workflow.

Placeholder Extension | *TypeScript, WXT, Cross-Browser API*

Jan 2026 – Present

- Built a cross-browser extension (Chrome/Edge/Firefox) using **WXT** that enforces "challenge-based" unlocking for high-distraction sites.
- Solved SPA navigation issues (e.g., YouTube Shorts) using **MutationObservers** to ensure reliable blocking without page reloads.

San Graha - Orbital 2024 (Artemis) | *Godot, Docker, CI/CD*

May 2024 – Aug 2024

- Launched a real-time strategy game with a fully automated **CI/CD pipeline** (GitHub Actions/Docker) for bi-weekly deployments.
- Led a 2-person Agile team to achieve 'Artemis' (**Highest Distinction**) certification, writing **100+ unit tests** and applying **SOLID principles**.

LEADERSHIP & SOCIAL IMPACT

Project Diwata | *Co-Founder & Safety Officer*

May 2024 – Present

- Co-founded a social impact initiative to build a sustainable library in Cebu; led 3 expeditions and managed risk for 15+ members.

Borneo Komrad | *Documentary Producer & Researcher*

Jan 2025 – May 2025

- Produced a documentary on statelessness in Sabah, conducting field research and interviews with the Bajau Laut community.

Junior Achievement Asia Pacific | *Regional Winner (1st Place)*

Jan 2020 – Aug 2020

- Led a sustainable fashion startup to victory in the APAC region; represented Asia Pacific in the Global Entrepreneurship finals.