

AAKASH PAI

BSc (Hons) Computer Science Student

INTERNSHIP PERIOD: JAN 2027 – APRIL 2027

aakashpai2007@gmail.com | 01123776040 | linkedin.com/in/aakash-pai | github.com/kashals | aakashpai.dev

Education

Sunway University, BSc (Hons) Computer Science Sep 2025 – Present

- In Progress | **Dean's List Award** – February 2026 Semester 5, Faculty of Engineering and Technology
- **ACE Scholarship** – RM 11,000/year tuition reduction, awarded on the basis of Diploma CGPA 3.83/4.00

Sunway College, Diploma in Information Technology Aug 2023 – Aug 2025

- CGPA: 3.83/4.00
- **Coursework:** Web Development, Database Fundamentals, Mobile Application Development, Object-Oriented Modeling, Java Programming, System Analysis & Design, Computer System Architecture

Experience

Frontend Developer Intern, InQuantum AI Apr 2025 – Aug 2025

- Designed and built the UI/UX for xPulse, an internal AI-driven platform used across the company.
- Completed a frontend assessment by reverse-engineering a full-stack real-time chat application from a visual reference, integrating provided backend APIs to deliver a fully working product end-to-end.
- Built workflow automations using n8n and implemented production-quality UI animations with Framer Motion.

Projects

Sugar And Icing | sugarandicing.vercel.app | github.com/kashals/sugar-and-icing Jan 2025 – Present

- Production-grade e-commerce platform for a local bakery with server-authoritative Stripe checkout, Cloudflare Turnstile bot protection, and Upstash Redis rate limiting.
- Implemented atomic stock deduction via Supabase RPC and a role-gated admin dashboard with real-time revenue analytics.
- **Stack:** Next.js 15, TypeScript, Supabase, Stripe, Upstash Redis, Tailwind CSS

LinkOps Engine (MyHack 2026 – GDG Hackathon) | github.com/kashals/linkops May 2026

- Built during MyHack 2026 at Sunway University – a containerized AI decision-support system that processes pitch decks through Gemini 2.5 Flash async batch queues, mapping venture constraints against live relational data.
- Includes an XAI chat interface for real-time AI decision auditing, deployed on Google Cloud Run.
- **Stack:** Python, Streamlit, Gemini API, Docker, Google Cloud Run, Pandas

Distributed API Gateway & Throttling Core | May 2026
github.com/kashals/distributed-rate-limiter-gateway

- Built a production-grade API gateway in pure Go that enforces per-user rate limits globally across horizontally scaled replicas, with all throttling state managed in Redis.
- Implemented two pluggable rate-limiting algorithms – Token Bucket (lazy refill via HSET) and Sliding Window Log (ZSET-based) – both executed as atomic Lua scripts inside Redis, eliminating distributed race conditions without application-level locks.
- JWT middleware supports HS256 and RS256; verified identity is injected as X-User-ID into downstream headers while stripping the raw Authorization header before proxying.
- **Stack:** Go, Redis, Lua

Technical Skills

Languages: TypeScript, JavaScript, Python, Go, Java, Lua, HTML5, CSS3

Frontend: React, Next.js, Tailwind CSS, Framer Motion, Streamlit

Backend & Databases: Node.js, Supabase, PostgreSQL, MySQL, Redis

Tools & Platforms: Git, Docker, n8n, Google Cloud Run, Figma

Extracurricular & Achievements

- Participated in **MyHack 2026** (GDG Hackathon) at Sunway University, building an AI-powered venture decision-support system within 24 hours.
- Active member of the **Sunway Cybersecurity Club**, Sunway University.