

Muhammad Yousuf 邱樹富

Email: work.myousof@gmail.com **Phone:** +852 4679 1016

Github : www.github.com/ypathan **Website :** www.yousuf.xyz

Linkedin: www.linkedin.com/in/ypathan

Full-stack software developer with proven production experience across backend, frontend, infrastructure, and delivery. I build and operate reliable systems end-to-end, from design and implementation to deployment and ongoing maintenance, including real-time applications, enterprise portals and live server/website operations in Hong Kong. Comfortable taking full ownership with minimal supervision, I bring strong engineering fundamentals, professional communication, and practical experience with secure API development, Linux administration, and AWS fundamentals.

Technical Skills

- **Languages:** Go (Golang), Java, Python, JavaScript
- **Backend:** Spring Boot, Flask, Node.js (Express), RESTful API design, JWT authentication, role-based access control
- **Frontend:** React.js, EJS templating, REST API integration, authentication flows, async data handling
- **Real-time systems:** WebSockets, real-time messaging, event-driven workflows
- **Databases:** MySQL, PostgreSQL, MongoDB, Firebase (Realtime DB / Auth), schema design and query optimization
- **Cloud & infrastructure:** AWS (EC2, IAM, S3, basic networking), Linux server administration, on-prem & cloud hybrid environments
- **DevOps:** CI/CD concepts, environment provisioning, production deployment
- **Data & automation:** Web scraping (Selenium, BeautifulSoup), data aggregation, ETL-style processing, workflow automation
- **Security & compliance:** Authentication & authorization design, secure API design, input validation, protected endpoints; government & financial-grade system maintenance (HK Correctional Services, HKMA)
- **Machine Learning and AI :** model integration (DeepFace, Face API.js), AI-powered pipeline development
- **Tools:** Git, GitHub, Docker, Dokploy, Firebase, Odoo ERP

Languages

- **English:** Fluent (speaking, reading, writing)
 - **Cantonese:** Fluent (speaking, reading, writing)
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Education

University of Wollongong - Bachelors of Computer Science (Sept 2024 - July 2025)

UOW College Hong Kong - Associate of Science in Information Systems Development (Sept 2021 - July 2024)

Academic Results

- GSCE Chinese: A*
- GCE Chinese: A
- HKDSE English: Level 5
- HKDSE ICT: Level 3

Certification

AWS Certified Cloud Practitioner

Issued by: Amazon Web Services

Date of Certification: July 2025

Certification ID: a46446883220485aa2c9a17063c829aa

Experience

A Bit Digital Limited Hong Kong - Developer (July 2024 - Present, Tsuen Wan)

- Engineered multi-source web scraping pipelines using BeautifulSoup, Selenium and Java, aggregating data at scale for business intelligence use
- Built and maintained a full-stack internal Knowledge Management portal for the Hong Kong Correctional Services Department using Spring Boot, ReactJS and MySQL, a high-accountability government client
- Maintained and updated the Hong Kong Monetary Authority website, ensuring compliance and uptime for a tier-1 financial regulator

Proactive Technology Limited Hong Kong - Programmer (June 2024 - August 2024, Chai Wan)

- Sole developer on a production-grade real-time order tracking system built with Python (Flask), Firebase and Odoo ERP, delivered end-to-end from design to deployment
- Automated 3+ Odoo business workflows through custom scripting, cutting manual processing time by ~40%
- Managed and maintained live company servers and websites while providing day-to-day technical support with zero disruption to operations

Biomed Technology Holdings Limited - Programmer (Sept 2023 - May 2024, HKSTP)

- Administered and maintained onsite/offsite servers ensuring high availability for biomedical research operations
- Collaborated directly with bioinformaticians to configure specialized software environments, reducing their setup downtime
- Independently planned and deployed full network infrastructure for a new company branch, from setup to launch

Projects

- **Telecommunication Application - Personal Side Project**

- Built a full-featured real-time messaging platform supporting direct messages, group chats, and video calls and voice calls.
- Built with NodeJS, EJS templating engine and MongoDB.
- Source Code: <https://github.com/myousuf65/chat-ejs-node>
- Demo: <https://yousuf.xyz/projects/chat.html>

- **E-Commerce Store - Personal Side Project**

- Developed a full-stack marketplace with seller product listings, shopping cart, and secure checkout
- Implemented JWT-based authentication with Spring Security, ensuring protected user sessions end-to-end
- Backend Source Code : <https://github.com/myousuf65/e-commerce-backend>
- Frontend Source Code: <https://github.com/myousuf65/e-commerce-frontend>

- **Journal — Personal Project (Homebrew)**

- Built a cross-platform terminal journaling app in Go (Golang) using the filesystem for local storage.
- Implemented a reactive TUI with Bubble Tea (React-like experience for terminal apps) and styled UI using Lip Gloss (Charm).
- Containerized with Docker and set up CI/CD with Dokploy, shipping releases to Homebrew for one-command installs.
- Reached ~200 daily active users via Homebrew distribution.
- Project Information: `brew info ypathan/journal/journal`

- **Face Recognition Attendance System - Academic Project**

- Engineered an AI-powered attendance system where students check in via facial scan, automatically marking attendance inside Moodle, eliminating manual roll calls
- Integrated DeepFace ML model with Face API.js for accurate real-time face detection and landmarking
- Backend Code: <https://github.com/myousuf65/fyp-backend>
- Frontend Code: <https://github.com/myousuf65/fyp-frontend>
- Demo: <https://yousuf.xyz/projects/face.htm>