

DARRYL SOH

Software Engineer

Singapore | +65 8339 7679 | ssy.darryl@gmail.com | linkedin.com/in/darrylssy
github.com/darrylssy | darrylssy.com

Software engineer building cloud-native and AI-enabled systems across backend APIs, distributed workflows, data, security, and agent integrations. Experienced with C#/.NET, Python, PostgreSQL, AWS, and GCP from architecture through production delivery.

EXPERIENCE

Software Engineer

Oct 2025 – Present

Hepmil Media Group

Singapore

- Led architecture and end-to-end delivery of a cloud-native content ingestion and AI-analysis platform processing approximately 800K social media posts across 15K accounts across multiple regional markets.
- Designed event-driven and multi-cloud systems across AWS and GCP using SQS, Step Functions, PostgreSQL, REST APIs, and asynchronous processing; built C#/.NET services covering RDS, API Gateway, Cognito, IAM, VPC networking, Gemini inference, and granular authorization.
- Built an AI chat and discovery agent with custom Model Context Protocol (MCP) tools and reusable agent skills, enabling autonomous data retrieval, analysis, decision-making, and multi-step workflows.

Associate Software Engineer

Jan 2025 – Oct 2025

Hepmil Media Group

Singapore

- Scaled an award-winning academic capstone into a production AI video-analysis platform, architecting a cloud-based computer-vision pipeline processing 500K+ media assets across AWS and GCP; also supported infrastructure security through a system-wide CrowdStrike integration.

Software Engineer Intern

May 2022 – Aug 2022

Hepmil Singapore

Singapore

- Designed a Raspberry Pi and Python edge-computing computer-vision system for real-time physical-space tracking and built middleware integrating Monday.com with the Telegram Bot API for automated data updates.

Software Engineer Intern

Mar 2019 – Jul 2019

SGAG

Singapore

- Built an internal inventory and facilities-management platform from scratch using React and Ruby on Rails, and modernized live-stream workflows using OBS Studio and Google Workspace analytics integrations.

Software Engineer Intern

Jul 2018 – Feb 2019

Hitachi

Singapore

- Developed a Python optimization engine for autonomous drone routing under battery and starting-position constraints, with an Unreal Engine 3D simulation and Google Maps integration for trajectory validation.

TECHNICAL SKILLS

Languages & Frameworks: C#, .NET, ASP.NET, Python, JavaScript, React, Java, C++, Ruby

Backend & Cloud: PostgreSQL, SQL, REST APIs, AWS (SQS, SNS, RDS, Step Functions, API Gateway, Cognito, S3, IAM, VPC), GCP (Gemini, Cloud Storage)

AI & Architecture: MCP, agentic workflows, LLM tool integration, computer vision, distributed systems, event-driven architecture, serverless architecture, system design

Security & Engineering: Authorization/access control, cloud security, Git, full-stack development, technical project leadership, stakeholder collaboration

EDUCATION

Singapore Management University

Aug 2021 – Dec 2024

Bachelor of Science (Information Systems), Cum Laude

Singapore

- Dual Tracks: Digitalisation & Cloud Solutions, Business Analytics; Dell Technologies Academy Cloud Native Experience Award, 1st Place Capstone Project, later transitioned into production at Hepmil.

Inha University

Mar 2024 – Jun 2024

International Exchange Program, Information & Communication Engineering

South Korea

Temasek Polytechnic

Apr 2016 – May 2019

Diploma in Information Technology

Singapore

- Business Analytics elective; Diploma Plus in Innovation & Entrepreneurship; Most Outstanding Major Project Student for the Hitachi industry project.