

INGYIN MAY

Full-Stack .NET Developer & Cloud Engineer

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PROFESSIONAL SUMMARY

Software Developer and System Analyst with 3+ years of experience building full-stack and backend systems across recruitment, e-commerce, and POS domains. Skilled in ASP.NET Core, C#, React.js, TypeScript, and REST API design, with hands-on experience delivering microservices architectures on AWS using Terraform IaC. Proficient in Kubernetes (EKS), Docker, and CI/CD pipelines with GitHub Actions. Experienced in SQL database architecture and cloud infrastructure provisioning. Holds a Graduate Diploma in Systems Analysis from NUS and a HashiCorp Terraform Associate (004) certification.

TECHNICAL SKILLS

Backend: C#, ASP.NET Core, Entity Framework Core, Java, Spring Boot, Python, REST APIs

Frontend: React.js 18, TypeScript, Redux Toolkit, Material UI, Tailwind CSS, HTML, CSS, JavaScript, AJAX, jQuery

Cloud & DevOps: AWS (EC2, VPC, IAM, EKS, ALB, Route 53, NAT Gateway), Terraform (IaC), Kubernetes (EKS), Helm, Docker, GitHub Actions CI/CD, Linux, IIS, Apache Tomcat

Database: MySQL, MSSQL, Entity Framework Core, Stored Procedures

Tools: Git, Scrum/Agile, Swagger, Postman, Jira, Notion, JUnit, Keras, Scikit-learn, Maven

PROFESSIONAL EXPERIENCE

System Analyst Intern

Seacare Manpower Service Pte Ltd | 09/2024 – 01/2025 | Singapore

Tech Stack: ASP.NET Core MVC 8.0, C# 12, Entity Framework Core 8.0, Blazor Server, SQL Server 2022, ASP.NET Identity 2.0, JWT, RBAC, IIS 10.0 (Windows Server 2022)

Migration: Windows Forms (Desktop) to Blazor Server (Web)

Business Contribution & Impact

- Reduced candidate onboarding admin time by ~40%, freeing 5 HR staff from manual Excel-based data entry and enabling faster, more accurate hiring decisions.
- Delivered a fully operational recruitment web platform (candidate registration, job listings, employer management) on time within a 5-month internship.
- Saved staff ~2–3 hours/week by making historical candidate records instantly searchable, eliminating manual spreadsheet lookups.
- Reduced knowledge-loss risk by providing complete system documentation, user manuals, and Data Flow Diagrams at handover.

Admin Portal — Recruitment Platform (Participated & Contributed)

- Built user-facing registration with 7 sections including photo upload, saving all data to SQL Server.
- Contributed to a secure admin portal managing job listings, candidates, and client employers using ASP.NET Core.
- Performed database migration, transferring existing data from Excel spreadsheets into the system database.
- Implemented role-based authentication and authorization for recruiter and HR staff access.
- Prepared user manual, technical documentation, and Data Flow Diagrams at system handover.

Junior Software Developer

Mr IT Company Ltd | 12/2021 – 01/2024 | Myanmar

Tech Stack: ASP.NET Core 6.0, C# 10, Entity Framework Core 6.0, SQL Server 2019, ASP.NET Identity 2.0, JWT, RBAC, IIS 10.0 (Windows Server 2019)

Business Contribution & Impact

- Enabled course platform to go live with core revenue-generating features — course listing, discovery, and student enrolment — supporting the business's primary income stream.
- Protected user data for 3 user groups with zero reported unauthorised access incidents post-launch.

- Improved retail transaction accuracy for POS system, reducing cashier errors by ~30% and delivering more reliable daily sales records.
- Cut report generation time by ~50% through SQL query and stored procedure optimisation.

Related Projects (Participated & Contributed)

- **Course Finder Platform:** backend search, filter, and enrolment using ASP.NET Core; multi-role JWT auth for Student, Provider, and Admin.
- **POS System:** cashier interface, discount logic, payment flow, receipt generation, and role-based access for cashier and admin users. Wrote SQL queries and stored procedures to improve data retrieval speed.

Administrative Assistant

Myanmar Brewery Ltd | 08/2018 – 10/2021 | Myanmar

- Maintained ~95%+ on-time delivery rate across a high-volume supply chain, ensuring production schedules were not disrupted.
- Reduced vendor communication turnaround time by ~20%, lowering the risk of supply delays that could impact brewery output.

KEY ACHIEVEMENTS

End-to-End System Delivery at Seacare — Participated in the full development cycle of a recruitment admin portal from requirement gathering and system analysis to backend API development and deployment, serving real business users.

Career Transition into Tech — Transitioned from a non-technical background (Industrial Chemistry + Admin) into software development; earned a Graduate Diploma in Systems Analysis from NUS and secured a System Analyst internship within the same year.

Cloud & DevOps Upskilling — Earned HashiCorp Terraform Associate (004) certification; built hands-on AWS projects covering EC2, VPC, IAM, EKS, ALB, Route 53, and multi-VPC microservices architectures using Terraform IaC.

Full-Stack Breadth Across Multiple Domains — Delivered production-quality systems across recruitment, course discovery, and retail POS, demonstrating adaptability across both frontend and backend stacks.

PROJECTS

Fake Service App — Multi-VPC Microservices Architecture on AWS

Terraform, AWS (VPC, EC2, ALB, Route 53, NAT Gateway), Kubernetes (EKS), Linux, systemd | github.com/riri97-igm/fake-service-app

- Designed and provisioned a multi-VPC microservices architecture (customer-profile → account → statement) using Terraform IaC on AWS Singapore.
- Implemented 3 Application Load Balancers (1 internet-facing + 2 internal) with health checks, automatic failover, and service-to-service routing.
- Configured Route 53 Private Hosted Zone with alias records for resilient internal DNS, eliminating hardcoded IPs.
- Validated automatic failover: ALB removed unhealthy EC2 instance within 30 seconds and recovered automatically on restart.
- Applied least-privilege security with port-scoped Security Groups and linear VPC peering topology.

E-Commerce Web Application

.NET 7, React 18, TypeScript, Redux Toolkit, ASP.NET Identity, JWT | github.com/riri97-igm/E-Commerce_v1

- Built a full-stack e-commerce platform with .NET 7 backend and React 18 + TypeScript frontend.
- Designed RESTful APIs for product, basket, and order modules with JWT authentication.
- Created a scalable SPA using Redux Toolkit and Material UI with filtering, sorting, pagination, and search.

Terraform EKS Infrastructure (IaC)

Terraform, AWS EKS, Kubernetes | github.com/riri97-igm/terraform-eks-infra

- Provisioned an AWS EKS Kubernetes cluster using Terraform following Infrastructure as Code best practices.
- Wrote modular Terraform configurations for EKS, VPC, IAM, and node groups for consistent, repeatable environment setup.

- Separated infrastructure concerns into reusable modules for better maintainability and scalability.

Visitor Management System (VMS)

ASP.NET Core 8.0, React 18, TypeScript, C# 12 | github.com/riri97-igm/VMS_UI | github.com/riri97-igm/VMS_API

- Built a full-stack VMS with React + TypeScript frontend and ASP.NET Core REST API backend.
- Implemented visitor registration, check-in/check-out workflows, and role-based access control.
- Designed RESTful API endpoints connected to the React UI with form validation and status feedback.

Terraform AWS Dashboard Counting App

Terraform, AWS (EC2, VPC, IAM) | github.com/riri97-igm/terraform-aws-dashboard-counting-app

- Provisioned AWS infrastructure using Terraform with modular IaC configurations for EC2, VPC, and IAM.
- Practised connecting a frontend dashboard to cloud-hosted backend resources managed through Terraform.

EDUCATION

Graduate Diploma in Systems Analysis

National University of Singapore (NUS) | 02/2024 – 01/2025 | Singapore

Bachelor of Science (Industrial Chemistry)

East Yangon University | 09/2013 – 08/2018 | Myanmar

CERTIFICATIONS

- Terraform Associate (004) — HashiCorp

References available upon request.