

Professional Summary

Background in the fields of IoT (Internet of Things) and cloud computing. Since 2017, experienced in discussions and development of iOS, mobile applications, backend applications, microcontrollers, and embedded systems.

Participated as a speaker in the "Raspberry Pi-based Embedded System Design Workshop" and won the "Internet Development Competition".

Completed an internship at the Satellite Technology Center of the National Institute of Aeronautics and Space (LAPAN) in 2017. During the internship, designed a Windows application for ground station-to-satellite communication and controlled satellite positioning using BLDC motors with microcontrollers.

Completed a thesis titled "Design of Home Monitoring Control System Using Client-Server Model with NodeMCU ESP-12E-based IoT (Internet of Things)". This involved designing a microcontroller system capable of mutual communication via a client-server system over a WiFi network.

Holds a patent titled "IoT-based Home Security Monitoring Device". (<https://adamrabbani.com/my-patent/>)

Career History Summary

- Dec 2025 - present Cognizant Japan K.K. (Full-time)
- Jul 2024 - Dec 2025 Sumitomo Mitsui Banking Corporation (SMBC) (Full-time)
- Feb 2020 - present PT. Code Development Indonesia (CODE.ID) (Full-time)
- Jul 2017 - Aug 2017 Indonesian National Institute of Aeronautics and Space (LAPAN) (Internship)

Applicable Experience and Knowledge

- 3 years of mobile development experience
- 5 years of backend development experience
- Backend application development with Go, Java, Python, Rust
- Mobile application development with Dart, Swift, Kotlin
- Domain knowledge in GPS tracking, food delivery, airline/hotel booking, EC services, healthcare, battery rental/swap
- Development leader experience (up to 3 team members)

Technical Skills

Skill			Experience		
OS	Windows Server	2+ years	Framework	Spring	3+ years
	Linux	5+ years		MySQL	5+ years
	MacOS	3+ years		PostgreSQL	5+ years
Language	Go	5+ years	DB	DynamoDB	3+ years
	Java Spring Boot	5+ years		SQL Server	1+ years
	Rust	3+ years		NI Multisim & LabVIEW	3+ years
	Python	2+ years	Tools	CI/CD GitLab and GitHub	5+ years
	Typescript	2+ years		Jira	3+ years
	Bash	5+ years		Trello	3+ years
	Dart (Flutter)	5+ years		Arduino IDE	5+ years
	Swift (iOS)	2+ years		VS Code	5+ years
	Kotlin (Android)	1+ years		Proteus	3+ years
	C# .NET	1+ years		Microsoft Visual Studio	3+ years
	C++	1+ years		Matlab	3+ years
	GraphQL	3+ years		Elastic APM	3+ years
			Technology		

	Power Query	1+ years		Docker	5+ years
				Kubernetes	3+ years
				MQTT Protocol	5+ years
Middleware	Nginx	2+ years	Cloud		
	HAProxy	2+ years		AWS IoT Core	3+ years
	Apache Kafka	2+ years		AWS IoT Rules Engine	3+ years
	Grafana	3+ years		Lambda	3+ years
	Elastic APM	3+ years		SNS	3+ years
Cloud	Firebase	5+ years		EC2	3+ years
	AWS IoT Analytics	3+ years		S3	3+ years
	Amazon QuickSight	3+ years		Athena	3+ years
	Amazon Bedrock	3+ years		AWS OpenSearch Service	3+ years
	AWS Timestream	3+ years		AWS Glue	3+ years
	AWS CodeCommit	3+ years		AWS CloudWatch	3+ years
				Microsoft Azure	1+ years

■ Work Experience

Dec 2025 – present Cognizant Japan K.K. (Full-time)

Role: Sr. Associate, IoT / Data Platform Engineer and Senior Full-Stack Programmer

- IoT device connectivity and telemetry data platforms on AWS.
- Full-stack application delivery for enterprise clients.
- Working language: Japanese and English.

Jul 2024 – Dec 2025 Sumitomo Mitsui Banking Corporation (SMBC) (Full-time)

Role: Back End Developer

Period	Job Description	Phase	Environment	Members/Role
Jul 2024 – Dec 2025	Sumitomo Mitsui Banking Corporation (SMBC) Development and operation of market risk management system [Product Overview] Performed version upgrade of the same package at overseas locations to align with the domestic package version. Conducted operational verification in each environment and completed migration to the production environment. [Assigned Phases] Unit Testing: Verification of basic functionality after applying the new version Integration Testing: Verification of coordination with peripheral systems and data exchange System Testing: Conducted scenario tests along the entire business flow to confirm scope of impact Current/New Comparison: Compared and verified output results and processing behavior between current and new environments Production Migration: Performed switchover to production environment based on migration plan [Job Details] - Bug fixes during unit testing, integration testing, and system testing - Investigation and correction of security settings - Testing of calculation-related function packages - Development of migration tools [Achievements] Achieved version unification between domestic and overseas, contributing to standardization of system operations and improved maintainability. Detected and fixed bugs early	Development Testing	MS Windows Server C# .NET MS Visual Studio Power Query Bash Python	13 members/Member Work conducted in Japanese

	through the testing process, ensuring stable operation after migration.			
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Feb 2020 – present PT. Code Development Indonesia (CODE.ID) (Full-time)

Employees: Approx. 520

Role: Mobile Application Developer (Feb 2020 – Jan 2023), Full Stack Developer (Sep 2021 – present)

Dept: IT Development Division

Period	Project Details	Phase	Environment	Members/Role
May 2023 – Nov 2025	Recharge [Project Overview] Rent mobile batteries from mobile battery stations [Job Details] *Trello was used for process management, flow tracking, defect management, and change management. *As development leader, managed backend development team progress and conducted code reviews. *Developed serial controllers for hardware-to-app communication using Java. *Process status messages from sensors and control commands. *Developed IoT controllers for communication between apps and AWS IoT. *Handle jobs such as ad updates, app updates, app restarts, open-slot mobile batteries, and user mobile batteries. *Backend developed using TypeScript with AWS Lambda. *Maintenance, bug fixes, and unit testing. [Achievements] Makes it easier to rent mobile batteries even in locations where charging is difficult.	Planning/Proposal Basic Design – Detailed Design Development Testing	Linux, MS Windows Amazon DynamoDB , Amazon Elastic Cache, AWS CLI, IoT Analytics, IoT Core, Rules Engine, Lambda, S3, EC2, DynamoDB, Timestream, SNS, Athena, CDK, SAM, API Gateway, OpenSearch Service, Glue, QuickSight, Bedrock, CloudWatch, Kubernetes, JavaScript , Java , Kotlin, Rust, Dart, Python	10 members/Member Work conducted in Indonesian
Sep 2021 – Nov 2025	Traccar [Project Overview] GPS vehicle and personal tracking application [Project Scale] 1000+ users [Assigned Phases] Requirements definition, basic design, detailed design, backend development, unit testing, development leader [Job Details] *Developed message handlers from IoT devices to the Traccar app using TCP sockets. *As backend development leader, managed backend development team progress and conducted code reviews. *Developed APIs to process commands from requested APIs to IoT devices using TCP sockets. *Developed horizontal scaling of the SGB protocol using broadcast messages. *Maintenance, bug fixes, and unit testing. [Achievements] Enables IoT device tracking, IoT device commanding, reports, notifications, and trip summaries.	Basic Design – Detailed Design Development Testing	Linux, MS Windows MySQL, Redis Java MS Visual Studio Code, IntelliJ IDEA 12, Git	3 members/Dev Leader Work conducted in Indonesian and English
Sep 2021 – Nov 2025	SGB & Volta [Project Overview] An application system that functions as a	Basic Design – Detailed Design Development	Linux, MS Windows, MacOS PostgreSQL, MySQL	13 members/Member

	battery swap for electric scooters. [Project Scale] 1000+ users [Assigned Phases] Requirements definition, basic design, detailed design, full-stack development, unit testing, infrastructure setup, development leader [Job Details] *Trello was used for process management, flow tracking, defect management, and change management. *As development leader, managed backend development team progress and conducted code reviews. *Developed view controllers from Figma and Adobe XD created by UI/UX designers. *Developed with features including search, list, filter, quick chat, native maps, QR scanning, infinite scroll, and payments. *Developed an API to retrieve SGB device locations from nearest user stations using PostgreSQL's "earth distance" extension. *Developed a quick chat API using ChatGPT from Azure Cloud. *Maintenance, bug fixes, and unit testing. [Achievements] Makes it easier for customers to swap batteries for electric scooters. Users can view a list of battery swap stations.	Testing	Go, Dart MS Visual Studio Code, IntelliJ IDEA 12, Git, Docker, GraphQL, Microsoft Azure, Nginx, HAProxy, Apache Kafka, Grafana, Elastic APM	Work conducted in Indonesian and English
Aug 2021 – Mar 2022	Digiresto [Project Overview] An app connecting food and beverage businesses with customers [Project Scale] 100+ users [Assigned Phases] Requirements definition, basic design, detailed design, mobile development, development leader [Job Details] *Trello was used for process management, flow tracking, defect management, and change management. *As mobile development leader, managed mobile development team progress and conducted code reviews. *Developed view controllers from Figma created by UI/UX designers. *Developed with features including search, list, collection, filter, geocoding, reverse geocoding, native maps, infinite scroll, and payments. *Bug fixes and unit testing. [Achievements] Enables customers to easily order food from various food companies	Basic Design – Detailed Design Development Testing	MS Windows, MacOS SQLite MS Visual Studio Code, Git, XCODE, Android Studio	8 members/Member Work conducted in Indonesian
Jan 2021 – May 2022	Antavaya [Project Overview] Book airline tickets, hotels, and tours. [Project Scale] 1000+ users [Assigned Phases] Requirements definition, basic design, detailed design, iOS development, development leader [Job Details] *Jira was used for process management, flow tracking, defect management, and change management.	Basic Design – Detailed Design Development Testing	MacOS SQLite Swift XCODE, Git	8 members/Member Work conducted in Indonesian

	*As iOS development leader, managed iOS development team progress and conducted code reviews. *Developed view controllers from Figma created by UI/UX designers. *Developed with features including native maps, search, list, collection, filter, infinite scroll, and payments. *Bug fixes and unit testing. [Achievements] Enables customers to easily book tours, airline tickets, and hotels			
Nov 2020 – Jan 2022	Astra Otoshop Bisnis [Project Overview] An app that allows businesses to order vehicle body parts. [Project Scale] 1500+ users [Assigned Phases] Requirements definition, basic design, detailed design, iOS development, development leader [Job Details] *Jira was used for process management, flow tracking, defect management, and change management. *Developed view controllers from Adobe XD created by UI/UX designers. *Developed with features including search, list, collection, filter, infinite scroll, and payments. *As iOS development leader, managed iOS development team progress and conducted code reviews. *Bug fixes and unit testing. [Achievements] Makes it easier to purchase vehicle parts through B2B transactions.	Basic Design – Detailed Design Development Testing	MacOS SQLite Swift XCODE, Git	8 members/Member Work conducted in Indonesian
Jun 2020 – Dec 2020	Kuantar Kulina [Project Overview] Navigation for food delivery drivers to deliver food to destinations. [Project Scale] 100+ users [Assigned Phases] Requirements definition, basic design, detailed design, mobile development, unit testing [Job Details] * Asana was used for process management, flow tracking, defect management, and change management. * Developed view controllers from Adobe XD created by UI/UX designers. *Developed with features including list, geocoding, reverse geocoding, native maps, infinite scroll, and photo image submission. *Bug fixes and unit testing. [Achievements] Enables food delivery drivers to deliver food to customer destinations more efficiently.	Basic Design – Detailed Design Development Testing	MS Windows SQLite Dart MS Visual Studio Code , Git , Android Studio	5 members/Member Work conducted in Indonesian

Jul 2017 – Aug 2017 Indonesian National Institute of Aeronautics and Space (LAPAN) (Internship)

Role: Research and Development Intern

Dept: Satellite Technology Center

Period	Project Details	Phase	Environment	Members/Role
Jul 2017 – Aug 2017	BLDC Reaction Wheel Controller [Project Overview] Arduino based satellite attitude control:	Design – Development	Windows Arduino C#	Project Leader Work conducted

	control a BLDC reaction wheel over I2C from a Windows application. [Assigned Phases] Project design, application development, circuit design [Job Details] *Led the project design as project leader. *Developed a Windows GUI application for earth station to satellite communication. *Designed the electronics that drive the BLDC motor from an Arduino over I2C. *Built the I2C control loop between the GUI, the Arduino and the motor driver.		LabVIEW I2C	in Indonesian
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■ Certifications

- Japanese Language Proficiency Test N2 - January 2019 (<https://adamrabbani.com/certificate/>)

■ Personal Statement

I have 5 years of development experience as a full-stack engineer, from mobile to backend development. I have cultivated my skills through the entire development lifecycle, from requirements definition to design, testing, and operations.

I passed the Japanese N2 exam in January 2019, and have no issues communicating in Japanese in a business environment.