

# Emma Ahmad Sirajudin

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Setiu, Terengganu, Malaysia

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## EMBEDDED SYSTEM | BACKEND | CLOUD APPLICATION | AWS RE/START

Software Engineer with more than 10 years of experience primarily in embedded systems in various industries. Currently transitioning to backend development and cloud technologies. Strong leadership skills, experienced in guiding teams, proficient in Scrum and Agile methodologies.

### Career Break (April 2024 - Present)

- Focusing on personal development and career growth
- Participating in the AWS re/Start program
- Developing a SaaS prototype that incorporates containerization on AWS, CI/CD pipelines, Langchain OpenAI, a Golang backend, and a Postgres database

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## KEY COMPETENCIES

Computer system	AWS	Microcontrollers	Golang	
System administration	Python	Software development	CI/CD	Google Workspace
Scripting	C/C++	Project management	Github	

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## PROFESSIONAL EXPERIENCE

### Motorola Solutions

September 2019 - March 2024

#### Senior Software Engineer

- Led a product refresh initiative, serving as the Product Owner while working closely with stakeholders and reached timely completion despite multiple legacy technical debts.
- Designed and implemented new features in accordance with requirements, contributing to the successful launch of a new product line.
- Conducted investigations and resolved issues reported by the testing team, aiding the department in achieving all development milestones.
- Adhered to organizational standards by practicing Scrum, CI/CD, and test-driven development.

### Kontron Asia Pacific

August 2016 - July 2019

#### Senior Software Engineer

- Initiated a microcontroller project, created a new repository within the codebase, and introduced BMC design and development guidelines
- Provided customized BIOS codes to facilitate successful board bring-up processes
- Developed utility tools to support both customers and the internal teams, easing development works and achieving ROI
- Supported Board Support Package development and delivery, conducted validation in both Linux and Windows, familiarized with UEFI and ACPI standards
- Porting code base to support different components and driver requirements, achieving agility in software

**Universiti Malaysia Terengganu**

**May 2013 - May 2015**

**Graduate Student**

- Provided tutoring in Java to first-year undergraduate students
- Conducted research in Distributed Systems and contributed to the publication of academic papers
- Created a server cluster monitoring system utilizing VMWare, ANSI-C library, and sockets; implemented a dynamic heartbeat detection based on a theory from another study, demonstrating its reliability for High Availability within the application

**Sony EMCS**

**August 2008 - August 2010**

**Software Design Engineer**

- Accountable for the delivery of microcontroller firmware for audio systems
- Supported integration and debugging of the Hardware Abstraction Layer
- Performed validation of Digital Signal Processing (DSP) for audio standards, ensuring signal integrity and audio decoding

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**EDUCATION**

**Masters of Science, 2015**

Computer Science, Universiti Malaysia Terengganu

**Bachelors of Engineering, 2007**

Computer Engineering, Vanderbilt University, USA

**CERTIFICATION**

**IT Automation with Python, May 2024**

Google Professional Certificate

**Currently pursuing AWS Cloud Practitioner**

**certification.** Target completion in November 2024

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