



JOSHUA SAHAGUN

FULL-STACK SOFTWARE ENGINEER

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01 · PROFILE

Full-Stack Software Engineer who enjoys turning complex business problems into practical, reliable software — automation tools, internal platforms and operational dashboards that reduce manual work. I work across the full development lifecycle, from requirements and solution design through deployment and ongoing improvement, and use generative and agentic AI to support planning, development, testing and documentation while keeping technical judgment with the developer.

02 · STACK

LANGUAGES Ruby, JavaScript, TypeScript, C#, C++, PHP, SQL, T-SQL, VB.NET, VBA	FRAMEWORKS & UI Ruby on Rails, React.js, Next.js, REST APIs, ASP.NET, WPF
CLOUD & DEVOPS AWS (S3, CloudFront), Docker, Linux, Git-based workflows, deployment automation	DATA PostgreSQL, MySQL, Microsoft SQL Server, Supabase, relational database design
AI-ASSISTED ENGINEERING Claude Code, OpenAI Codex, Cursor, Devin AI, GitHub Copilot; MCP integrations, custom agents, reusable skills, automated hooks	PRACTICE Requirements analysis, system architecture, code review, testing, stakeholder communication

03 · EXPERIENCE

MC SECURITY CO., LTD.

Oct 2022 – Present

System Engineer · On-site, Matsue, Japan · Apr 2025 – Present

System Engineer · Remote, Philippines · Oct 2022 – Mar 2025

- Contribute to full-stack development within a network security environment, building operational systems using Ruby on Rails, React/Next.js and PostgreSQL-backed services on AWS infrastructure.
- Developed a Device Serial Mapping platform to automate dynamic device-to-component relationships, eliminating manual workflows and improving operational efficiency for the support team.
- Built a Machine-in-Field (MIF) Installations Monitoring system that transforms raw operational data into structured, high-level insights used across departments for planning and execution.
- Designed and deployed a React-based application integrated with a Ruby on Rails REST API, managing build artifacts in Amazon S3 and configuring Amazon CloudFront for application delivery.
- Use AI-assisted development tools — Claude Code, OpenAI Codex, Cursor, Devin AI and GitHub Copilot — to support implementation, debugging, code review, documentation, testing and technical analysis.
- Contribute to an established agentic development infrastructure by creating and using specialized agents, reusable skills, custom commands, automated hooks and Model Context Protocol (MCP) integrations.
- Earlier, remotely with the team in Japan: developed and maintained internal operational and infrastructure-supporting applications in Linux-based, containerized environments and Git-based workflows.

Business System Analyst III · Mar 2022 – Sep 2022**Business System Analyst II** · Mar 2021 – Mar 2022**Business System Analyst I** · Sep 2019 – Mar 2021 · Tanauan, Batangas, Philippines

- Architected and delivered enterprise operational platforms integrating scheduling, automated notifications, forecasting and process control mechanisms within a large-scale manufacturing environment.
- Designed and enhanced integrated workstation monitoring and certification validation systems enforcing training compliance and enabling real-time operational visibility.
- Served as primary developer for major internal systems – responsible for system architecture, database design, UI development, deployment, stakeholder presentation and long-term maintenance.
- Led development of department-wide applications and automation platforms replacing fragmented manual processes with structured, database-backed systems.
- Built internal dashboards and tracking systems covering transportation logistics, production tracking and compliance monitoring, improving operational visibility while reducing manual reporting.

KINPO ELECTRONICS (PHILIPPINES), INC.

Jun 2017 – Sep 2019

Software Engineer II · Jun 2018 – Sep 2019**Software Engineer I** · Jun 2017 – Jun 2018 · Lipa, Batangas, Philippines

- Initiated and led an experimental migration of a C# (WPF) 3D application to C++ to improve performance when processing high-volume geometric models.
- Designed a dynamic support-bed generation feature that adapts to model geometry and placement, using a honeycomb pattern to optimize resin usage while maintaining load stability.
- Developed a desktop application for automated 3D seal/stamp generation, enabling users to create customizable 3D models without manual modeling tools.
- Built custom C# libraries extending core 3D software functionality, including automated support-structure generation optimized for material efficiency and print stability.
- Created internal QA and log-analysis tools to streamline troubleshooting; mentored a junior engineer and managed staging releases in coordination with international teams.

NEXPERIA

Nov 2016 – Jun 2017

Junior Software Engineer · Cabuyao, Laguna, Philippines

- Contributed to the development and maintenance of internal web and desktop applications using C#, ASP.NET and VB.NET within a semiconductor manufacturing environment.
- Developed Excel-based automation tools using VBA for data extraction, reporting and operational support.
- Implemented feature enhancements based on user requirements and assisted in debugging, code refinement and performance improvements under senior engineer guidance.

04 · EDUCATION**STI COLLEGE – TANAUAN**

Jun 2013 – Apr 2017

Bachelor of Science in Information Technology

05 · HONORS

Best IT Special Project (Thesis) Awardee

Best Programmer of the Year Awardee

3rd Place – UnionBank U:Hac 4.0 STI Edition Hackathon