

# EMMANUEL OCAT

## Senior Software Engineer

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## SUMMARY

Dynamic Senior AI Engineer with 14+ years of hands-on experience from technical sales and client-facing engineering in industrial automation at Yokogawa Philippines, to full-stack ownership in early startups, deep backend engineering on global platforms serving 40+ countries, and now designing LLM-powered and agentic AI solutions in regulated, data-intensive domains. Specialized in high-concurrency, fault-tolerant services across multi-region deployments, with expertise in distributed systems, performance tuning, maintaining stability under heavy load, and sales engineering including proposals, technical presentations, installations, commissioning, and client support for wireless products, software, and controllers. Transform complex technical challenges into scalable, production-grade solutions delivering business value, balancing latency, cost, and maintainability. Thrive in distributed international teams with end-to-end ownership: architecture, implementation, deployment, observability, and continuous improvement, using Python, Scala, PHP, Ruby on Rails, JavaScript, and cloud tech like AWS/GCP.

## EXPERIENCE

04/2022 - 01/2026

San Francisco, United States(Remote)

### Senior AI Engineer

#### Federato

*Federato is an AI-native insurance technology company modernizing underwriting and policy lifecycle decision-making. The platform embeds machine learning and advanced AI directly into workflows to enable faster, more accurate insurance decisions.*

- Designed and built LLM-powered agentic workflows that automate submission intake, risk triage, full-quote generation, and underwriting decision support — delivering complete, explained quotes for underwriter review in minutes while preventing strategy drift.
- Led creation of comprehensive model evaluation, benchmarking, and production monitoring systems tracking accuracy, latency, drift, coverage, and performance regressions.
- Developed modular ML/LLM architectures to support rapid experimentation and reuse across diverse insurance lines, carriers, and real-world use cases.
- Defined core principles and guardrails for safe, interpretable autonomous agent behavior that balances business outcomes, explainability, and regulatory/compliance needs.
- Partnered with MLOps and Data Engineering to deploy, monitor, and continuously improve models in production environments.
- Translated cutting-edge applied research into production AI features directly used by underwriting teams.
- Effectively communicated complex modeling trade-offs, evaluation results, and system impacts to both technical teams and business stakeholders.



11/2019 - 04/2022

Berlin, Germany(Remote)

### Senior Backend Engineer

#### Delivery Hero

*Delivery Hero is a global online food ordering and delivery platform operating across more than 40 countries. Its engineering teams build and maintain large-scale, high-availability backend systems used by millions of users worldwide.*

- Designed and maintained high-concurrency backend services powering restaurant advertising, premium placements, and performance analytics products handling massive global traffic.
- Built and optimized RESTful APIs consumed by thousands of merchants and internal systems across multiple regions and time zones.
- Developed and supported production services in Python, Scala, and PHP within a large-scale microservices architecture.
- Boosted system stability, throughput, and cost-efficiency through database optimizations, legacy code refactoring, and performance tuning.
- Contributed to architecture and implementation of fault-tolerant, highly available systems designed to handle peak traffic reliably.
- Deployed, scaled, and operated services using Docker and Kubernetes on AWS and GCP cloud environments.
- Set up and maintained observability with monitoring, logging, and alerting via Grafana, New Relic, and Kibana to catch issues fast.
- Collaborated daily with product, data, frontend, and cross-functional teams in a fast-paced, international agile setup.



EXPERIENCE

09/2015 - 11/2019

Tokyo, JP(Remote)

Full Stack Developer

株式会社Hacobu

Hacobu is a logistics tech startup building SaaS platforms to digitize and optimize supply chain and transportation operations for enterprise and SME clients.

- Led full-stack development of core logistics SaaS platforms used daily by hundreds of customers, owning features from concept through production.
- Designed and built scalable backend services and RESTful APIs using Ruby on Rails, with strong focus on performance, maintainability, and clean architecture.
- Developed and maintained responsive frontend interfaces with JavaScript, HTML, and CSS (pre-heavy SPA era).
- Dramatically improved application performance through database schema redesign, query optimization, indexing, and large-scale refactoring.
- Established solid engineering foundations: development workflows, coding standards, code review processes, and testing practices as the team grew.
- Mentored junior engineers, led onboarding, and helped scale the engineering culture remotely.
- Worked fully remote from day one, collaborating effectively across Japan and international time zones with product, sales, and customer success teams.



06/2014 - 07/2015

Manila, Philippines

Sales Engineer

Yokogawa

Yokogawa Philippines, Inc. (YPI) is a subsidiary of Yokogawa Electric Corporation, a Japanese multinational specializing in industrial automation, test and measurement, and information systems.

- Specialized in Yokogawa products, proposing tailored solutions for diverse applications and ensuring strict adherence to global guidelines and standards.
- Served as the primary Business Unit lead for Field Wireless products, software, and controllers, overseeing product integration and optimization.
- Directly addressed client technical concerns, supported the Product Sales Department, and conducted successful technical presentations, installations, and commissioning.
- Participated in industry exhibits and collaborated closely with Management Committee (Mancom) personnel to promote Yokogawa's offerings.
- Leveraged in-depth knowledge across Yokogawa's comprehensive product range to enhance client satisfaction and operational efficiency.



EDUCATION

04/2010 - 03/2014

Fukuoka, Japan

Bachelor of Information Technology and Business

Cyber University(online)

06/2002 - 04/2009

Manila, Philippines

Bachelor of Science, Electronic and Communication Engineering

Universidad de Manila

SKILLS

JavaScript/TypeScript	ReactJS	HTML	Next.js	Vue.js	CSS	Python	GO	Scala	PHP	Ruby
Rest APIs	PostgreSQL	MySQL	LLM	PyTorch	LangChain	CrewAI	AWS	GCP	Docker	Git
Sales & Business Development		Marketing		Industry Penetration Strategies						

LANGUAGES

Filipino



English

