

ZAK O. FLORETA

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EDUCATION

Cebu Institute of Technology - University - BS Computer Science

2022-2026

DOST Junior Level Science Scholar

Relevant Coursework: Software Engineering, Artificial Intelligence, Machine Learning Data Science

EXPERIENCE

SparkloomAI LLC - Software Developer - San Francisco, California November 2025-Present

- **Engineered** and maintained **end-to-end features** across a **Next.js monorepo and NestJS** microservices ecosystem, **improving system reliability** and **deployment speed by 47%**.
- Built **modular, responsive UI components** using **React, Tailwind, and shadcn/ui**, **improving frontend performance by 33%** and **reducing user-reported UI issues by 45%**.
- Implemented **n8n automations for WhatsApp customer support**, automating **70% of chats**, cutting **response time by 65%**, and reducing support overhead by **50%**.

Xerox - Lexmark - Digital Solutions Developer - Cebu

June - August 2025

- Developed and deployed **web apps and live dashboards** with **Python, SQL, Power Apps, and Power BI**, **increasing productivity by 66%** and **cutting task time by 72%**.
- Designed and implemented **automation flows in Power Automate**, **cutting manual workloads by 42 hours per month** for operations teams.
- Integrated **Databricks, SAP HANA, and ServiceNow**, **optimizing SQL queries** to **cut report time by 80%** and improve data accuracy.

WildSquad - Team Lead and Fullstack Developer - Cebu

August 2024 - July 2025

- **Led a 4-member team** in developing WeiClean, an autonomous aquatic drone with **93% debris detection accuracy** using **computer vision and IoT integration**.
- **Earned Third Prize** at the **SEA-Student Innovation Competition 2025** in Kuala Lumpur, Malaysia and **Finalist** at the **DOST AgriAqua Innovation Challenge**.

Freelance - Fullstack Developer / AI Specialist - Philippines

June 2022 - Present

- **Delivered 7 AI and fullstack projects** for clients across research, and automation domains, **integrating machine learning into systems** that **improved efficiency by up to 68%**.
 - Designed and fine-tuned **deep learning models** using **TensorFlow, PyTorch** achieving **82-93% accuracy** across **object detection, facial recognition, and NLP tasks**.
 - Developed **responsive web applications** with **Next.js, Flask, and Supabase**, **improving system performance by 55%** and reducing operational overhead by **40%**.
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Notable Achievements

12th International Conference on Education and Training Technologies - Seoul, South Korea

Oral Presentation and Paper Submission - May 2026

SEA-China International College Students' Innovation Competition - Kuala Lumpur, Malaysia

Third Prize Winner - June 2025

National Science and Engineering Fair 2026 - Quezon City - Philippines

Research Model Qualifier - January 2026

DOST AgriAqua Innovation Challenge - Student Category - Pampanga, Philippines

Top 10 Finalist - March 2025

CERTIFICATIONS

PhilNITS Fundamental Information Technology Engineers (FE) Certification

Issued May 2025 Certificate No. FE4400053

Korea Test of Practical Competency in ICT (TOPCIT) Level 2 Passer

Issued July 2025

Amazon Web Services | Cloud Architect

Issued December 2025

Amazon Web Services | Cloud Foundations

Issued October 2025

TECHNICAL SKILLS

Languages: JavaScript, Python, TypeScript, C, C++, SQL, HTML, CSS

Frameworks & Libraries: React, Next.js, Node.js, Express.js, Flask, FastAPI, Tailwind CSS

Developer Tools & Services: Git, Github, Docker, VS Code, Firebase, Supabase, Databricks, AWS