Ziedell Alexander C. Figueroa

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Computer Science graduate (Cum Laude, University of the Philippines Cebu) with full-stack, backend, and DevOps experience across web, VR, and research-facing tools. Currently teaching at UP Cebu and working in site reliability engineering; building toward graduate-level research in applied data systems.

EDUCATION

University of the Philippines Cebu; B.S. Computer Science, Cum Laude *2022 – 2026*
University Scholar (1.25 GWA, semestral standing, 2022–2026)

University of the Philippines High School in Iloilo; Secondary Education, with Honors *2020*
PCCCI Scholar (2014–2020) · Honors Student (2019)

EXPERIENCE

Fullstack Bilingual Japanese Developer *Jan 2027 – Present*
IBM, Philippines

Consultant and Researcher, ISCOLab *Sep 2026 – Present*
University of the Philippines Open University

Tutor, Faculty of Communication and Information Studies *Sep 2026 – Present*
University of the Philippines Open University

Lecturer, Department of Computer Science *Aug 2026 – Present*
University of the Philippines Cebu

Site Reliability Engineering (SRE) Intern *Jul 2026 – Aug 2026*
Opswerks, Cebu City

- Trained in the basics of Git, Python, Docker, AWS, and Kubernetes for server management and protocols.

Intern & Assistant to the Dean *Jun 2025 – Jun 2026*
Faculty of Information and Communication Studies (FICS), UP Open University

- Direct assistant to the FICS Dean; supported UP VINTA and UPOU course initiatives, research paper publishing, and website maintenance for UPLB Forestry and PHILAJAMES.
- Contributed to AR/VR disaster-risk-reduction projects with NCAP and to ISTAR Lab web publishing.

Monitoring Software Engineer *May 2025 – Jun 2026*
Wind's Gate Philippines, Cebu City

- Monitored PHP-based crypto and financial-service applications for a Tokyo-based client; debugged and resolved production issues.
- Studied corporate Japanese to support cross-office communication.

VR Development Intern & Community Manager *Jun 2025 – Jun 2026*
The Japan Foundation, Manila

- Designed and programmed Metaverse/VR environments for Japanese language and cultural education initiatives.
- Ran a formal thesis study on VR for distance and collaborative learning; designed the Nihongojin Connect newsletter.

Freelance Full-Stack Developer *2022 – Present*
Self-employed

- Built and deployed 8+ web applications spanning marketplaces, booking systems, and research- and education-facing tools (selected work below).

Book Designer & Layout Artist *Jul 2021 – Jan 2025*
Krutherford Corporation, Cebu City

- Designed, laid out, and revised books across genres using Adobe InDesign and Photoshop.

EARLIER EXPERIENCE

Assistant Project Manager / Document Intern, JAAL Solar & Fabrication Works: Jan–Jul 2021. Prepared billing, permitting, and technical paperwork for solar-powered rural irrigation projects; liaised with the National Irrigation Administration.

Freelance Writer (academic proofreading), Livingston Research: Jun–Dec 2020.

SELECTED PROJECTS

ISCOLab Dashboard: Created a next-generation dashboard for ISCOLab at UP Open University by leveraging Three.js to build a fully interactive 3D web experience. The design transforms how users explore the lab's projects and initiatives through a modern, visually dynamic interface. *(Node.js, Three.js, TypeScript, Vercel Deployment)*

Seiza: Continuation of my undergraduate thesis. One-world-per-deploy self-hostable open code for WebXR and VR-enabled 3D Space for classroom, cultural and language education, and/or training. *(Node.js, WebSockets, TypeScript, Cloudflare Deployment, WebVR)*

Komprensible: Undergraduate thesis. Modular backend delivering Japanese language & cultural content (kanji, grammar, quizzes) to an immersive VR classroom via REST API. *(Node.js, Express, JSON Schema, FrameVR)*

CIS PH Data Hub: Data-visualization platform presenting projected temperature and rainfall models for the Philippines, built on Isabela State University climate research. *(HTML/CSS/JS, Data Visualization)*

BUHAT — Bridging Users, Hubs & Artisans: Full-stack artisan marketplace for Cebu creators, with real-time chat, workshops, and a maker-verification system. *(Next.js, Convex, Clerk, Tailwind CSS)*

Grammatrix: Web-based NLP tool that extracts parts-of-speech tags from text input. *(React, Next.js, TypeScript)*

TECHNICAL SKILLS

Languages & Frameworks: JavaScript/TypeScript, Python, React/Next.js, Node.js, Django, HTML/CSS, Tailwind CSS

Backend & Data: REST APIs, SQL databases, JSON Schema

Cloud & DevOps: Linux, Git/GitHub, Docker, Kubernetes, AWS

VR/AR: Three.js, WebXR, A-Frame, FrameVR

Design: Adobe Creative Suite (InDesign, Photoshop, Illustrator), Figma, Canva

Other: Google Workspace, Advanced Excel, cross-browser & OS troubleshooting

CERTIFICATIONS

- Civil Service Exam, Professional Level: Passer (August 2024)
- Linux, Git, Python, Docker, & AWS— Kodekloud; Certificates accessible via LinkedIn
- IBM SkillsBuild — Cybersecurity (in progress)
- IBM SkillsBuild — Data Analytics (in progress)

LANGUAGES

Filipino: Native · English: Fluent · Japanese: JLPT N3 Level

LEADERSHIP & ACTIVITIES

- President (2023–2024) and Public Relations Officer (2024–2025), Nichibunken (Japanese Culture) Club, UP Cebu
- Otakufest: Talents Dept. Vice Head (2025); Guest/Accommodations Manager (2024); Talents & Hotel Sponsorship Manager (2023)
- Volunteer Tutor, Teaching and Learning Resource Center (TLRC), UP Cebu (AY 2025–2026)
- Paper Presenter, World Immersive Learning Labs (WILLS) 2026 (UP Open University), Future Hub Forum 2026 (Kyoto University of Foreign Studies), and World Immersive Learning Labs (WILLS) 2027 (Kyoto University of Foreign Studies)
- Paper Presenter, Philippine Nihongo Teachers' Forum (PNTF) 2026 held in Iloilo City by the Japan Foundation Manila and UP Diliman Department of Linguistics
- IAFOR 2026 and WILLS 2026 & 2027 Volunteer Conference Staff

Seminars/programs: Kyoto University Energy Science Seminar; Chiba Univ. Int'l Economics of ASEAN Seminar; JICA JENESYS Program (Japan Politics, Economy & Foreign Policy); BSP Youth Summit; Tokyo Forum: Shaping the Future. All during 2021.