Vincent Baculi

Programmer · Strategist · Author

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ABOUT

Final-year Diploma in Information Technology student who turns coursework and side projects into portfolio-ready case studies. Comfortable across the stack, with a particular interest in clean component structure, fast interfaces, and accessible design.

EXPERIENCE

Software Engineering Intern — TechCore Labs

Jun 2025 — Present

- Built and shipped three internal dashboard features used daily by the operations team.
- Cut a key reporting page's load time by roughly 40% through query and caching improvements.
- Paired with senior engineers on code review, picking up production-grade Git and testing habits.

Freelance Web Developer — Self-employed

2023 — 2025

- Designed and built five small-business websites end to end, from wireframe to deployment.
- Managed client communication and scope directly, delivering every project on schedule.

Teaching Assistant — Web Development 101

2024

- Ran weekly lab sessions for 30+ first-year students learning HTML, CSS, and JavaScript basics.
- Wrote supplementary practice exercises adopted into the following term's curriculum.

SIGNATURE WORK

Smart Energy Monitor — React, Node.js, MQTT
Live dashboard reading household power usage from a sensor network, flagging unusual consumption early.

Campus Marketplace — Next.js, PostgreSQL, Tailwind
Peer-to-peer app for students to list and swap textbooks and gear with in-app messaging.

Focus Flow — TypeScript, Chrome API
Chrome extension that blocks distracting sites during study blocks and logs focused time.

SKILLS

Languages	JavaScript, TypeScript, Python, SQL, HTML & CSS
Frameworks	React, Next.js, Node.js, Express, Tailwind CSS
Tools	Git & GitHub, Figma, Docker, Postman, Vercel
Practices	REST APIs, Responsive Design, Agile/Scrum, Accessibility

ACHIEVEMENTS

- Hackathon Winner, CampusHack 2025 — first place with the Smart Energy Monitor, built in 36 hours.

- Dean's Lister for 4 consecutive terms throughout the Diploma Program.
- Open-source contributor — merged 4 pull requests to a community React component library.
- Published a widely-read article on building accessible React forms.