

ETHAN OWEN TARUC

CURRICULUM VITAE

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Computer Science student and full-stack developer focused on operational systems, data-backed software, and a long-term path toward AI engineering and systems architecture.

- BSREM Student Portal live in production
- Two internships, 460 hours combined
- Thesis research in NLP trend detection
- Valedictorian, campus Senior High School class of 2023

EDUCATION

Bachelor of Science in Computer Science

Aug 2023 to May 2027, expected

Ateneo de Manila University | Quezon City, Metro Manila | Enterprise Systems specialisation

- Coursework and projects span software development, databases, algorithms, enterprise systems, and artificial intelligence.

Senior High School, STEM

Class of 2023

Arellano University, Andres Bonifacio Campus | Graduated with Highest Honors

- Valedictorian of the Andres Bonifacio Campus Senior High School graduating class.

TECHNICAL EXPERIENCE

Co-Founder and Developer

Apr 2026 to present

Keth AI | Pasig, Metro Manila

[TypeScript](#) · [Next.js](#) · [PostgreSQL](#) · [Client delivery](#)

- Build custom operational software for small businesses and educational institutions, including portals, inventory systems, POS workflows, and internal management tools.
- Translate client and institutional workflows into scoped interfaces, data structures, and delivery plans.
- Run engagements end to end: requirements gathering, written scope, delivery, and an operating manual the client keeps.

Full Stack Engineer Intern

Jul 2026 to Aug 2026

Philippines Center for Real Estate Professional Studies | Pasig, Metro Manila | 160-hour internship programme

[Next.js](#) · [TypeScript](#) · [PostgreSQL](#)

- Developed the BSREM Student Portal, a live system covering student, faculty, and administrative workflows.
- Structured role-aware navigation so each type of user reaches only the work relevant to them.
- Connected operational records and academic information into one consistent portal experience.
- Tested behaviour across responsive layouts and the institution's common workflows.

Revenue Operations Intern

May 2026 to Jul 2026

Sprout Solutions | Mandaluyong, Metro Manila | 300-hour internship

[Full-stack prototype](#) · [Data validation](#) · [Process documentation](#)

- Built an internal full-stack prototype to support a Revenue Operations workflow as the internship final project.
- Reviewed and cleaned operational records, supported data validation, and documented recurring processes.

SELECTED PROJECTS

BSREM Student Portal

2026

Production system

[Next.js](#) · [TypeScript](#) · [PostgreSQL](#)

- Built role-aware student, faculty, and administrative workflows for an education provider, now running in production.

The Happy Cookie Ops

2026

Delivered client system

[TypeScript](#) · [Offline-first](#) · [Inventory](#) · [Bookkeeping](#)

- Delivered a two-sided system for a bakery: a customer storefront with weekly drops and collection slots, and an ops application covering orders, payment review, bake planning, four-stage inventory, purchasing, and profit and loss.
- Made the grocery list a computed output rather than a typed one, derived from committed orders, stock on hand, and the owner's chosen levels, priced against a budget.
- Designed it to run offline on a single phone, with scheduled backup, sync, and full data export so the business is never locked in.

Emerging Business Opportunity Score

2026 to present

Thesis, research in progress

[Python](#) · [Node.js](#) · [BERT](#) · [NLP](#) · [Clustering](#) · [SQL](#)

- Contribute to a three-person system for collecting, clustering, and evaluating trend signals; no final accuracy or business outcome is claimed.
- Helped design the scoring framework and the extract, clean, transform, and load pipeline, and built the data-collection demonstration used at the defence.

Seam Carving Algorithm

Academic project

Python · Dynamic programming · Image gradients

- Implemented per-pixel energy from image gradients, connected low-energy seam search by dynamic programming, and iterative content-aware resizing.

RoboHuman War

Academic project

Java · Swing · Sockets

- Built projectile physics and client-server game logic while a partner focused on the creative art.

Guitar String Algorithm

Academic project

Python · Karplus-Strong synthesis

- Built a playable string simulation from keyboard input and a ring buffer.

ADDITIONAL EXPERIENCE

Bodybuilding and Nutrition Coach

Jan 2026 to Jun 2026

Freelance | Hybrid, Metro Manila

- Managed a client roster end to end: intake, scheduling, progress tracking, and weekly plan adjustments.
- Explained the reasoning behind each plan so clients could make informed decisions independently.

Quality Assurance Coordinator

Nov 2024 to Jan 2025, Nov 2025 to Jan 2026

Team CP | Remote, seasonal

- Reviewed digital artwork against customer requirements and wrote clear, specific revision notes.
- Coordinated approval cycles among artists, managers, and feedback teams during high-volume periods.

ADDITIONAL PROJECTS

Nutrition Process Automation

Completed workflow system

Google Sheets · Rule logic · Data validation

- Built a multi-sheet system that automated calculations, plan adjustments, and consistent data entry, removing repeated manual work.

CREDENTIALS AND ACTIVITIES

Certificate of Recognition

Aug 2026

Philippines Center for Real Estate Professional Studies | 160-Hour Internship Program

- Recognised for development of the BSREM Student Portal.

Certificate of Completion

Jul 2026

Sprout Solutions | 300-Hour Revenue Operations Internship

Revenue Operations Certified

Valid Jun 2026 to Jul 2027

HubSpot Academy

Member, Computer Society of the Ateneo

Aug 2023 to present

Ateneo de Manila University

Participant, OpenAI Build Week Community Buildathon

Jul 18, 2026

Ateneo de Manila University, Manila

- Collaborated in a team build at the Manila community event; no award is claimed.

ACADEMIC DISTINCTIONS

Valedictorian

Class of 2023

Arellano University, Andres Bonifacio Campus Senior High School

- Delivered a graduation address at the Philippine International Convention Center.

Rank 1 Overall, Grade 11 STEM

Academic Year 2021 to 2022

Arellano University, Andres Bonifacio Campus | Highest Honors

TECHNICAL SKILLS

Languages	Python · TypeScript · JavaScript · Java · C++ · SQL · HTML · CSS
Frameworks	Next.js · NestJS · Node.js · REST APIs · PostgreSQL
AI and data	NLP · BERT · Clustering · Data validation · Process automation
Delivery	Git · GitHub · Vercel · Testing · Accessibility
Foundations	Algorithms · Data structures · Databases · Enterprise systems