Jhaime Cando
Computer Science Graduating

Tondo, Manila, Metro Manila, Philippines

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Professional Summary

Graduating Computer Science with strong expertise in backend development and algorithm optimization. Experienced in full-stack development with proficiency in Python, JavaScript, and modern web frameworks.

Technical Skills

- **Primary Languages:** Python, JavaScript
- **Backend:** Flask, Django, RESTful APIs, Spring Boot (learning), MySQL, SQLite
- **Frontend:** ReactJS (learning), Vue 3, Astro, HTML/CSS
- **Tools:** Linux, WSL, Git/GitHub, Firebase, Supabase, Vercel, VSCode, Google Maps API

Projects

Enhancement of Tabu Search Algorithm for Optimized Rescue Operation

Python (Algorithm Simulation), Flask, Jinja2, Google Maps API (Web App) — Project Manager & Lead Developer

- Developed wave-resonance perturbation technique increasing solution diversity by **7-10×**
- Engineered focal point sampling method reducing complexity from $O(n^3)$ to $O(n^2)$, achieving **8.7× faster runtime** with **58% quality improvement**
- Created Python simulation framework to evaluate and compare enhanced algorithm performance against existing variants
- Built web application integrating the enhanced algorithm with Google Maps API for real-world rescue operation planning
- Presented research findings at "TO CS TO BELIEVE 2025" conference as sole presenter

Web-based Faculty Load and Class Scheduling System

Node.js, ExpressJS, EJS, MySQL — Computer Science Department

- Designed comprehensive relational database schema optimizing academic scheduling workflows
- Developed secure authentication system with OTP-based verification and role-based access control
- Helped built backend API handling faculty load distribution, scheduling, and conflict resolution

CGrassPLUS - Custom Programming Language & IDE

Python, Tkinter — Solo Developer

- Designed and implemented complete programming language supporting data types, conditionals, loops, and control structures
- Built integrated development environment with code editor, output terminal, and execution interface
- Developed three-phase compiler architecture (lexical, syntax, semantic analysis) for robust code parsing and validation

Professional Experience

IT Intern — One Depot, Makati, Metro Manila — 240 hours

- Supported project management operations for network engineering initiatives
- Maintained technical documentation and project tracking systems for accurate reporting

Education

Bachelor of Science in Computer Science

Pamantasan ng Lungsod ng Maynila — Expected September 2025 — OGWA: 1.9857

Certifications

- **CS50x: Introduction to Computer Science** - HarvardX (2020)