

Marco Opertti

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EDUCATION

University of Pennsylvania

B.S.E. in Computer Science | GPA: 3.7

Philadelphia, PA

Aug. 2024 – May 2028

- Minors: Design, Engineering Entrepreneurship
- Relevant Coursework: Data Structures, Algorithms, Computer Systems, Operating Systems, Discrete Mathematics, Linear Algebra, Probability, Integrated Product Design, Coding Agents; Databases, (in progress)
- Activities: Club Soccer Captain, Wharton Latino Membership Committee, Curious Cardinals

EXPERIENCE

Design Engineer

Oct. 2026

Stealth AI Data Center Startup

New York, NY

- Built a world engine that deploys deep research agents to compile land, power, and regulatory data on any outlined parcel
- Auto-generated a detailed site overview, pitch deck, construction drone view, and chatbot for every parcel to help close deals

Software Engineer Intern

May 2026 – Aug. 2026

LightFeather

Washington, DC

- Architected a grading pipeline that executes candidate submissions in isolated runners and scores them via the Claude API
- Routed scored results into Slack and Sheets, cutting 10 manual reviews weekly and standardizing previously uneven criteria
- Worked directly with the CEO to rebuild a 30+ page company website, templating it onto Node.js so non-engineers ship edits
- Automated weekly timesheet checks that flag unsubmitted entries; emailing reminders, removing follow-up for 50+ employees

Software Engineer Intern

Jul 2025 – Aug. 2025

TakeOff Media

Montevideo, Uruguay

- Built an end-to-end retrieval pipeline over 1,000+ video summary documents for AT&T's platform "The Achievery"
- Raised content discovery accuracy 15–40% by replacing the platform's keyword matching with semantic retrieval
- Shipped a full-stack interface over the index and presented it to the team; since adopted into the production platform

Data Analyst Intern

May 2023 – Jul. 2023

Ministry of Social Development

Montevideo, Uruguay

- Created water pricing models synthesizing data across 19 municipalities to support emergency response to a national drought
- Administered a 200+ participant survey, analyzing program accessibility and presenting findings to ministry leadership

PROJECTS AND LEADERSHIP

LHF, College Academic Assistant | *Swift 6, SwiftUI, CloudKit, Supabase, PostgreSQL*

May 2026 – Present

- Co-founded an iOS and macOS app that parses Canvas ICS feeds and scrapes Gradescope into one assignment dashboard
- Refreshes submission state in the background, sending local deadline notifications and syncing across devices via CloudKit
- Engineered an AI assistant that answers questions from a student's full course context, ranked by BM25 and RAG embeddings
- Grew to 30+ weekly active students and shipped 6 App Store updates driven by user feedback ahead of a campus-wide launch

Monk, AI Productivity Guide | *Next.js, TypeScript, Tailwind, Groq*

Oct 2025 – Apr 2026

- Built a habit and goal tracker with an LLM guide that maintains context across check-ins to evaluate user-defined goals
- Structured progress around user-declared vows set at onboarding, distilled into a weekly reckoning on every standing goal
- Owned the product design end to end, translating Figma prototypes into 6 animated, fully responsive screens

Penn GeoGuessr | *Java, SQLite*

Apr 2025 – May 2025

- Built a campus location-guessing game scored on a logarithmic distance curve that rewards near-misses
- Self-collected 50+ geotagged campus photos and added a pixel-processed grayscale hard mode with persistent leaderboards

Despacito Latin BBQ | *Co-Organizer*

Apr 2025 – Present

- Co-organize Penn's largest Latino cultural festival, drawing 2,000+ attendees and raising \$10,000+ for nonprofits
- Coordinate theme direction, marketing, and decor while managing equipment across partner student organizations

TECHNICAL SKILLS

Languages: Python, Java, TypeScript, JavaScript, Swift, SQL, OCaml, HTML/CSS

AI & Retrieval: LLM APIs (Claude, Groq, OpenRouter), RAG, BM25, vector embeddings, semantic search, Qdrant, Ollama

Frameworks: Next.js, Node.js, React, SwiftUI, Tailwind, REST APIs

Databases & Tools: PostgreSQL, Supabase, CloudKit, SQLite, Git, GitHub Actions, CI/CD, Agile, Vercel, Xcode