

# GABRIEL ORTIZ

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## EDUCATION

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**Northeastern University**, Boston, MA

Sep 2025 - Present

*BS in Computer Science*

*Relevant Coursework:* Discrete Mathematics, Data Structures and Algorithms, Object-Oriented Design

**Prepa Tec de Monterrey**, Santa Catarina, N.L, Mexico

Aug 2022 - May 2025

*GPA:* 4.0/4.0

*IB Coursework:* Computer Science SL (5), Business Management HL (6), German Ab Initio (6)

## PROJECTS

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**Cost Accumulation Software**, *Developer*, BYP

Sep 2024 - Jan 2025

- Designed and developed full-stack Java/JavaFX application for calculating product costs including shipping costs, taxes, container limitations, and import fees
- Implemented user authentication, product database persistence, real-time exchange rate API integration, and cost breakdown graphics and visualizations
- Created pricing calculator allowing company employees to set prices based on target profit margins or reverse-calculate margins from desired price

**Aviation Weight & Balance Manager**

Feb 2026 - Present

- Developing Python/Flask web application for general aviation pilots to save aircraft weight and balance profiles and ensure aircraft is within limits for takeoff and landing
- Integrated pre-flight safety checklist system to ensure compliance with FAA regulations
- Designed persistent SQL database to store users' aircraft profiles and calculation history
- Implemented flight envelope visualizations with graphs showing center of gravity limits based on estimated fuel burn

## WORK EXPERIENCE

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**Kumon Institute of Education**, *Teaching Assistant*, Monterrey, Mexico

Mar 2024 - Oct 2024

- Managed learning activities and progress tracking for 30 students
- Guided students in foundational and advanced math and English concepts; developed clear explanations that helped students master difficult material
- Organized student schedules and maintained detailed records; communicated student progress to parents and instructors

## LEADERSHIP & EXTRACURRICULAR EXPERIENCE

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**STEMinds Club**, *Founder*, Monterrey, Mexico

Sep 2023 - May 2025

- Organized state-level science fair with 300+ participants; raised \$2,500 in sponsorships
- Directed bi-monthly educational sessions for groups of 20 kids in underserved communities
- Taught computer fundamentals and online safety; directly impacted digital literacy for disadvantaged youth

**MHAS - Social Action for Improvement of Communities**, *Board Member*, Monterrey, Mexico

Oct 2023 - May 2025

- Coordinated community improvement trips with 40+ students and corporate professionals
- Led the renovation and re-painting of 3 under-resourced public schools and 15 homes for people with mental health conditions

**Professional DJ**, *House of DJ*, Independent

Jul 2016 - Present

- Performances at 20-3000+ person events; cultivated analytical thinking and adaptability in fast-paced environments

**Certificated Pilot**, *FAA Private Pilot Certificate (PPL)*, Hayward, CA

Aug 2025 - Present

- Developed problem-solving frameworks and maintained a permanent learner's mindset through rigorous technical training
- Managed complex systems under high levels of stress; demonstrated discipline and decision-making skills

## SKILLS

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- *Programming Languages:* Python, Java, C#, JavaScript, HTML/CSS
- *Technologies/Tools:* Git/GitHub, VS Code, JetBrains IDEs, REST APIs, Flask, Supabase, JavaFX, Pandas, Matplotlib, Excel
- *Human Languages:* English (Native), Spanish (Native), German (B2)