

# Thomas Idrobo

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## EDUCATION

### Boston University

Bachelor of Arts in **Computer Science & Economics**

Expected Graduation:

**May 2027**

**Relevant Coursework:** Algorithms, Discrete Mathematics, Linear Algebra, Computer Systems, Systems Programming, Data Structures, Software Engineering, Microeconomics, Macroeconomics

**Activities/Clubs:** Society of Hispanic Professional Engineers, Alianza Latina, Club Colombia, Brothers United, La Asociación Oficial de Estudiantes Latinoamericanos

**Languages:** Spanish, English

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, PowerShell, HTML, CSS, JavaScript, TypeScript

**Tools and Frameworks:** Azure OpenAI, TaskWeaver, Copilot Studio, VS Code, Spyder, Figma, Microsoft Office, Github, Git, React, Cursor, Claude Code AI

## EXPERIENCE

### Microsoft

*Incoming Software Engineer Intern*

Redmond, Washington

**May 2026-August 2026**

### Microsoft

*Software Engineer + Product Management Intern*

Redmond, Washington

**May 2025-August 2025**

- **Designed** and built an on-call engineer assistant **AI agent** in collaboration with 2 engineers and product managers, streamlining **12+** incident response workflows for **10+** engineers.
- **Defined 8+** critical functionalities through **10+** user interviews and developed an AI agent using **Azure OpenAI + TaskWeaver**, aiming to reduce average incident resolution time by **25%** by minimizing document search time.
- Built a **Python- and regex-based prompt interpreter** with an automated **PowerShell query generator** from 50+ templates, Improving documentation search speed by **90%**.

## PROJECTS

### Voice Virtual Assistant

*Sage* | Python, JavaScript, HTML, CSS, Socket.IO, ElevenLabs API

**December 2025**

- Developed real-time voice assistant using **Flask**, **WebSockets**, and **ElevenLabs API**, achieving **sub-second latency** at **25+ messages/min throughput**
- Implemented **WebSocket** communication handling **two-way audio streaming** across **web and CLI clients**, with **live transcript display** and sub-second response time.
- Created intuitive **push-to-talk interface** featuring **3 dynamic states** and real-time visual feedback, enhancing user experience and **decreased user error** by **80%**.

### Space News Website

*Space! News* | Next.js, TypeScript, Ant Design, CSS, RESTful API

**October 2025**

- Built a responsive news aggregation platform using **Next.js**, **React**, and **TypeScript**, serving **9,000+** articles with real-time API updates.
- Implemented **dynamic pagination**, search functionality, and dual-view modes (grid/table) using **React hooks** and **TypeScript** state management patterns.
- Built reusable **React** components with **TypeScript** type safety, responsive **CSS design** for mobile/tablet/desktop, and **RESTful API** integration with robust error handling and optimized data fetching

## LEADERSHIP & PROFESSIONAL DEVELOPMENT

**BU Chapter of Society of Hispanic Professional Engineers** | *Webmaster* | Boston, MA

**September 2025-Present**

- Organized and led 8+ networking, academic support, and career development initiatives for 25+ Hispanic engineering students, driving leadership growth and a **20%** increase in chapter engagement.
- Managed digital presence for 40+ members by updating website weekly, organizing 3+ resources, and improving site accessibility by **20%**.

## AWARDS

- **1st Place Overall** — Microsoft M365 Intern Copilot Agentic AI Hackathon (2025)
- **Seal of Biliteracy**

**Seattle, WA**  
**Brentwood, NY**