

# Alexandra Sanchez

alexsanc@mit.edu | 561-331-7321

## EDUCATION

---

### MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Cambridge, MA

- Candidate for BS in Computer Science and Engineering with a minor in Business Finance May 2026
- Activities: Google Latinx Student Leadership Summit, D.E. Shaw Latitude Fellow, Accenture SLP Fellow (Women in Technology track), Bank of America Women's Forum

### BOCA RATON COMMUNITY HIGH SCHOOL

Boca Raton, FL

- Unweighted GPA: 4.0/4.0 | Weighted GPA 5.7/6.0 | SAT: 1530/1600 August 2018 – May 2022
- Honors: Top 1% of 850+ Student Class, College Board National Hispanic Recognition Program, AP Scholar with Distinction

## EXPERIENCE

---

### JANE STREET | Incoming 2025 Software Engineering Intern

June 2025 – August 2025

### FTV CAPITAL | Software Development & Growth Equity Intern

June 2024 – August 2024

- Identified key patterns between the metrics of industry competitors to automate associate market mapping by leveraging Python and SQL to perform intricate data analysis on a 3.6+ million company database
- Trained an LLM model using K-means clustering and OpenAI API to filter top-of-funnel companies across 480+ horizontal and vertical markets; Performed intricate prompt engineering and testing to reduce up to 25% of hallucination
- Conduct comprehensive user interviews with deal teams across financial services and enterprise services to gather insights and pinpoint opportunities for streamlining due diligence workflows

### JANE STREET | Software Engineering Fellow

June 2023 – August 2023

- Completed a rigorous immersion program as 1 of 14 nationally selected fellows, becoming proficient in functional programming language OCaml through the implementation of image manipulation, game AI, graph traversal, web scraping and development
- Developed an ETC bot capable of trading and converting bonds, ADRs, and ETFs generating \$20,000+ PnL in minutes, given dynamic market information within a simulated exchange
- Engineered and presented an imperfect information game optimizer alongside an MIT peer, deploying discrete math to track data and generate recommendations to maximize player success, as well as used React Native to build an interactive web UI

### MIT COMPUTER SCIENCE & AI LABORATORY | Founding Engineer

December 2023 – Present

- Design and coordinate content development for 6.100LX, a new course offering a broad array of foundational AI concepts embedded within introductory programming material, increasing accessibility to students with little or no coding experience
- Build interactive front-end course materials, including learning modules and assessment tools, using JavaScript and Cat-Soop

### MIT CODE FOR GOOD | External Communications Chair

September 2023 – Present

- Collaborate with MIT peers to provide pro-bono technical consulting service to local non profit organizations
- Facilitate communications between 7 Massachusetts philanthropic corporations and their corresponding consultant student groups; coordinate between 50 club members for final project presentations at an end of semester Code for Good Symposium

### MIT SOCIAL & ETHICAL RESPONSIBILITIES OF COMPUTING SCHOLAR

September 2023 – Present

- Contribute to cutting-edge research under postdoctoral associate Dr. Karim Nader, working on the intersection of information and technology to study how internet discourse changes political and social narratives

### KOCH INSTITUTE FOR INTEGRATIVE CANCER RESEARCH | Undergraduate Researcher

December 2022 – August 2023

- Administered complex laboratory experiments requiring protocol composition, sample preparation, and data collection to ultimately aid the development a novel low cost, point of care diagnostic for Sickle Cell Disease in developing nations
- Conducted extensive scientific literature reviews on SHERLOCK and CRISPR technologies to generate experiment methodology

## EXTRACURRICULARS

---

### MIT SLOAN BUSINESS CLUB | Director of Media

September 2022 – Present

- Completed a semester-long education program to develop foundational knowledge in finance, consulting, and entrepreneurship
- Presented a consulting case study and stock investment pitch which required company due diligence through industry research, business model analysis, examination of competitive positioning, and financial modeling

### MIT VARSITY WOMEN'S SOCCER

August 2022 – Present

- Commit 25+ hours a week to training and games while balancing a rigorous collegiate course load, developing a strong work ethic and tenacity to meet personal and team goals