

# Carlos Henríquez

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## EDUCATION

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### Massachusetts Institute of Technology

Cambridge, MA

*Candidate for M. Eng. in Computer Science*

Feb 2019

*B. Sc. in Electrical Engineering and Computer Science*

June 2017

Relevant Coursework: Advanced Natural Language Processing, Intelligent Multimodal Interfaces, Computational Linguistics, Human Intelligence Enterprise, Database Systems, Computer Systems Engineering, Software Studio, User Interface Design and Implementation, Design and Analysis of Algorithms, Communicating with Mobile Technology, Artificial Intelligence

## EXPERIENCE

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### MIT STEP Lab – Graduate Researcher, TaleBlazer Team

June 2018 – Present

- Researching use of Bluetooth for cross-platform communication to add multiplayer functionality to TaleBlazer, a platform for middle and high school students to create location-based augmented reality mobile games.

### Intel Corporation – Software Engineering Intern, Data Center Group

June – September 2017

- Joint role as business analyst and software engineer on market intelligence team studying current and future market trends to provide insights to other teams. Created competitor network visualization included in white paper delivered to Executive VP.
- Automated data ingestion pipelines for data from third-party vendors and scrapers to Postgres using Python and shell scripts.

### Facebook – Software Engineering Intern, Messenger for Android

June – August 2016

- Implemented identity key verification and conversation initiation over NFC for Messenger for Android's secret conversations.
- Designed, developed, and documented internal NFC module to facilitate future NFC integration to other parts of code base.

### Harvard Business School – Summer Venture in Management Program

June 2016

- Selected as 1 of 92 participants from 3,000 applicants for management fellowship working with and learning from HBS faculty.

### Gruppo Luccioni (Ancona, Italy) – User Experience Design Intern

June – July 2015

- Designed and prototyped new interface for web-based energy management system with Bootstrap, SASS, and jQuery.
- Conducted user interviews with various stakeholders to discuss user needs and app pain points.

### Shoobx, Inc. – Software Development Engineering Intern

June – August 2014

- Adapted to fast-paced environment of a startup by acquiring the necessary skills in a few weeks.
- Pushed code daily to accomplish various assigned tasks, including work-item locking, browser testing, and database migrations.

## CS INSTRUCTION

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### MIT EECS Department – 6.00 Teaching Assistant, Head TA (current)

February 2015 - Present

- Work closely with professors to design exams, problem sets, automated graders, and recitations for introductory CS class with 620+ students. Manage overall course logistics and instruct staff of 15 teaching assistants.
- Teach weekly recitations and host weekly office hours to explain Python and computer science fundamentals.

### Middle East Entrepreneurs of Tomorrow (Jerusalem) – Co-President, CS Instructor

August 2015 – June 2017

- Led recruitment of 30 computer science and business instructors to teach over 200 Palestinian and Israeli high school students.
- Designed curriculum for and taught introductory Python and programming fundamentals to 70 students for 3 weeks.

## LEADERSHIP

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### Gordon-MIT Engineering Leadership Program – Gordon Engineering Leader

September 2015 – June 2017

- Leader in selective leadership training program focused on developing emerging leaders in engineering industry.
- Actively coached, advised, assessed the performance and conducted performance assessment of team of 7 first-year program students with support from highly trained leadership program staff, providing candid written and verbal feedback.

### Nu Delta Fraternity – Webmaster, Rush (Recruitment) Chair, Steward

February 2014 – February 2017

- Updated and maintained brother profiles and brotherhood philanthropy events on Angular-based website.
- Managed \$30,000 budget for nightly meals and house events, including formal dinners and recruitment events.

### HackMIT – Organizer

September 2014 – September 2016

- Organized 1000+ person 24-hour hackathon, working alongside logistics director to ensure timely setup, cleanup and smooth flow, and with corporate relations director to secure funding from sponsors.
- Led outreach campaign for Blueprint, MIT's 2-day learnathon and hackathon for 300 high school students and guaranteed that 30 rental laptops were available for underprivileged students.

## SKILLS

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- Language:** Fluent oral and written Spanish, Italian, and English
- Programming:** Python, Java, JavaScript, HTML/CSS, Android, Node.js, Git, Linux, Postgres, SQL, MongoDB, Golang, Arduino, D3.js, PyTorch, Keras
- Enlisted in the U.S. Army Reserve as 35F Intelligence Analyst starting March 2019. Potential for Top Secret clearance.