

# ERICA DU

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## EDUCATION

Cambridge, MA  
June '15  
June '14

### MASSACHUSETTS INSTITUTE OF TECHNOLOGY

*Master of Engineering in Computer Science* ▪ GPA 4.7/5.0

*Bachelor of Science in Computer Science* ▪ GPA 4.9/5.0 ▪ Tau Beta Pi Honor Society

## WORK

New York, NY  
Jun '18 - Jun '19

### DIGITAL LIFE INITIATIVE @ CORNELL TECH ▪ *Research Fellow*

- Developed taxonomy for, analyzed potential exploits on, and proposed guidelines for the use of algorithmic accountability tools in predictive model based decision-making systems
- Explore role of and opportunities for digital tools in NY-based civic participation and community building

New York, NY  
Dec '16 - Jun '18

### PALANTIR TECHNOLOGIES ▪ *Forward Deployed Engineer*

*Department of Treasury ▪ United States Government ▪ 13 months*

- Served as Interim Tech Lead of 7 person team for 1 month. Represented team in weekly client calls, oversaw and communicated status of 4 pipelines, responded to client support requests and bug reports
- Designed, built, and maintained the primary data pipeline in team of 3 for a 100m+ row, 1k+ column, daily updating dataset to aid workflows of 600+ government analysts tackling large scale tax fraud
- Owned, wrote, and deployed internal schema-aware Java ES-Spark library critical to integration

*Center for Advanced Defense Studies ▪ Philanthropy ▪ 4 months*

- Collaborate with 4 non-technical analysts to build a 10k+ node network visualization and a triage tool to address pain points in investigative workflows in international poaching crimes and tax refund crimes

New York, NY  
Nov '15 - Nov '16

### CODECADEMY ▪ *Full Stack Engineer*

- Developed platform features with design, product, and marketing teams for coding education website with over 15m users using ReactJS, Ruby/Rails, and external APIs and frontend libraries
- Led technical development and contributed to product ideation of new coding flashcards content type
- Other notable projects: new user dashboard frontend, user interaction data pipeline, conversion email pipeline/communications, acceptance testing setup, internal diversity & inclusion initiative

Mountain View, CA  
Jun '13 - Aug '13

### GOOGLE ▪ YouTube Channels ▪ *Software Engineering Intern*

- Designed and implemented algorithm in Python to auto-generate unique playlist suggestions from public uploads of a YouTube creator, simplifying playlist creation

## LEADERSHIP

Oct '17 - Jun '18

### PALANTIR WOMEN IN TECH ▪ *NY Core Leadership Team – Community Outreach*

- Planned and co-hosted daylong startup pitch workshop event for 20 CUNY-Zahn Innovation Center Women in Tech students, 3 staff members, and 8 employee volunteers
- Co-founded, led, and organized adjacent internal service initiative, growing from 4 to 80 members

Feb '15 - May '15

### GRADUATE WOMEN @ MIT ▪ *Spring Empowerment Conference Co-Chair* ▪ [goo.gl/pshVTt](http://goo.gl/pshVTt)

- Directed and executed vision for 5 day conference, managed a \$9k budget and team of 7

Oct '10 - May '14

### MIT VARSITY WOMEN'S LACROSSE TEAM ▪ *Captain* ▪ *Offensive Starting Player*

Jan '13 - Dec '13

### KAPPA ALPHA THETA FRATERNITY ▪ *Zeta Mu* ▪ *Chief Education Officer*

Mar '10 - Nov '13

### MIT FRESHMAN LEADERSHIP PROGRAM ▪ *Coordinator* ▪ *Counselor*

- Co-developed/led 5 day camp exploring social issues (ie. race, gender), impacting 60 freshman annually

## SKILLS

### COMPUTER

Microsoft Word, Powerpoint, Excel

### DATA

Spark/Hadoop/Yarn, Elasticsearch, Python, Bash/Unix

### FULL STACK

Ruby & Rails, Java, React & Redux, Javascript/Typescript, HTML, CSS

### LANGUAGES

Conversational Mandarin Chinese and Spanish

### INTERESTS

Civic tech, engineering ethics, teaching, bread baking, women in STEM