

Andrea Jessica D. Jaba
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Education

Massachusetts Institute of Technology

Cambridge, MA

Bachelor of Science in Computer Science and Engineering; Inducted IEEE-Eta Kappa Nu (2020) (Beta Theta)

May 2020

Prospective Candidate for Master of Science in Computer Systems

September 2020 - May 2021

Relevant Coursework: Computer Systems Security | Interactive Data Visualization | Software Systems for Data Science |

Cryptography and Cryptanalysis | Software Construction | Design and Analysis of Algorithms | Computer and Network Security |

Advances in Computer Vision | Electronics Project Lab

Experience

Decentralized Information Group

Cambridge, MA

Undergraduate Researcher

September 2019 – May 2020

- Built a pipeline to generate decision trees with interpretable human-aligned explanations from CNN-based image classifiers using concept decomposition

NCSOFT

South Korea

Global Intern

June - August 2019

- Built a web UI for machine learning image translation and style transfer using React, Python Flask, JavaScript and SQL
- Designed and implemented a web tool from scratch for video annotation using React, Node.js, JavaScript and SQL supporting browser video frame seeking, undo/redo and restore session functionality, as well as user input validation

Edgerton Center

Cambridge, MA

Undergraduate Researcher

March - May 2019

- Implemented an Android app feature aimed to aid in safe communication between survivors of human trafficking

BetterLesson

Cambridge, MA

Winter Extern

January - February 2019

- Updated existing React, Python Flask, JavaScript, and SQL code to add new features to the external-facing website
- Conducted extensive testing while developing components to match mock design specifications

Computime

Hong Kong

Assistant Engineer

June - August 2018

- Built Python scripts to facilitate data transport between Splunk and Kafka for future machine learning applications
- Created a multi-user website with Django to streamline internal information exchange within the company
- Modified existing Java code to gather relevant weather information from third-party API
- Integrated and cleaned user data to generate insights on user habits and behaviors for a more intelligent thermostat

The Center for Brains, Minds & Machines

Cambridge, MA

Undergraduate Researcher

January - May 2018

- Assisted in designing a deep learning framework combining Tensorflow and PyTorch during weekly meetings
- Examined and operated data conversion code on Openmind, an on-campus GPU computing cluster

Leadership

MIT Southeast Asian Service Leadership Network

Cambridge, MA

Co-President (2018, 2019), Treasurer (2017)

September 2016 – May 2020

- Collaborated with a team to promote Southeast Asian culture in MIT through cultural and community events
- Organized fund-raising initiatives for summer service-leadership projects held in Southeast Asia
- Managed the overall budget of over \$2000 for the club's effective use of resources

Mathematics for Computer Science; MIT

Cambridge, MA

Teaching Assistant

September - December 2018

- Lead two weekly recitations and provide additional instruction and feedback in office hours for a 400+ student class
- Wrote problem sets, graded exams, and designed and presented exam preparation sessions

Skills and Activities

Software: Proficient in Python, Java | Intermediate React, HTML, CSS, JavaScript | Elementary Linux, MATLAB, SQL

Languages: Proficient in English, Mandarin, Hokkien, Filipino | Intermediate Proficiency in Korean

Activities: Gordon-MIT Engineering Leadership (GEL) Program, LeaderShape Institute, Asian Dance Team, MIT TechSec

Volunteer: Code For Good (Consultant), WiSE (Mentor), MIT CityDays (Volunteer), MIT TechCon (Volunteer), Splash (Mentor)