Alexa Jan

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EDUCATION

Massachusetts Institute of Technology | Cambridge, MA June 2020

- Candidate for a B.S. in Computer Science and Electrical Engineering, GPA: 4.6
- Minor in Spanish, Certificate in NEET Autonomous Machines
- Relevant coursework: Discrete Math, Embedded Systems, Machine Learning, Algorithms, Control Dynamics and Automation, Robotics, Ordinary Differential Equations, Software Engineering in Java and Python

WORK EXPERIENCE

Apple | *Camera Engineering Program Manager* | Cupertino, CA June 2019 - Present

- Drive IR projector and ultrawide camera technology design, manufacturing, and delivery to iPhone and iPad.
- Lead cross-functional team (hardware, software, optics, and operations) and report progress to executives.

Google | *Site Reliability Engineering Intern* | Pittsburgh, PA May 2018 - August 2018

- Reduced critical path of datacenter launch process, resulting in a 40%, multi-day speedup per region.
- Designed and implemented the architecture for progressive machine allocation, in Python, Go, and YAML.

MIT Global Startup Labs | *Technical Instructor* | Lima, Peru July 2017 - August 2017

- Developed a computer science curriculum and taught around 50 undergraduates at the University of Technology and Engineering the technical skills needed to start a company.

InstaGIS | *Software Engineering Intern* | Santiago, Chile June 2017 - July 2017

- Implemented big data management solutions for machine learning algorithms on the CivicBrain product using Apache Spark, improving efficiency by around 30% and enabling job automation.

PROJECTS AND RESEARCH

MIT Global Studies and Languages | *Spanish Independent Study* August 2019 - Present

- Research technology's role in human rights violations in Central/South American migrant and refugee crisis and present information in data visualizations and website.

Center for Brains, Minds, and Machines at MIT | *Undergraduate Researcher* December 2017 - Present

- Optimize neural network training in generative adversarial networks by modeling after brain activation.
- Forthcoming publication in MIT Undergraduate Research Journal.

MIT Driverless | *Simulation Team* April 2018 - September 2018

- Developed Gazebo simulation for testing and transferred to car for Formula Student Driverless competition.

MIT Media Lab: Playful Systems Group | *Undergraduate Researcher* January 2017 - May 2017

- Created a room-scale virtual reality visualization game of microbiomes, using Unity and C# for the HTC Vive.

MIT Urban Risk Lab: PREPHub | *Undergraduate Researcher* September 2016 - May 2017

- Designed touchscreen interface for connected neighborhood infrastructure for disaster preparedness.

ACTIVITIES

Class of 2020 Student Council | *Secretary* September 2016 - Present

- Organize events for and represent a class of 1,100 students to increase awareness about health issues, foster a strong sense of community within MIT, and connect with the greater Boston area.

Society of Women Engineers | *WECode Associate Director of Communications* September 2017 - May 2018

- Build relations with sponsors and colleges for the largest student-run Women in Computer Science conference, focusing on reach to smaller liberal arts colleges without strong technical programs.

SKILLS AND AWARDS

- **Technical Skills:** Python, Java, HTML/CSS, JavaScript, Go, Unity, C#, C++, Arduino, Adobe Creative Cloud
- **Awards:** MIT Global Ambassador (2019), Big Apple Dancesport Challenge–2nd in Latin Ballroom (2017), MIT Club of Northern California Scholarship (2016), US Rowing Youth Nationals–2nd in Lightweight 4 (2016), President's Volunteer Service Award (2014, 2015)