




# Arlene Siswanto

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## COURSEWORK

### Graduate Level

- 6.435 - Bayesian Modeling and Inference
- 6.883 - Machine Learning
- 6.864 - Natural Language Processing
- 6.819 - Computer Vision
- 6.840 - Theory of Computation
- 6.857 - Computer Security
- 6.S974 - Decentralized Applications

### Mathematics


- 18.650 - Statistics
- 18.615 - Stochastic Processes
- 18.600 - Probability
- 18.065 - Matrix Methods for Data Analysis and ML

## SKILLS

Languages - Python, C++, Java, Javascript, Matlab, R  
Tools - React, Angular, Flask, Scikit-learn, Keras

## HACKATHONS

Hack Lodge '19 - dormsp.am  
HackPrinceton '18 - Best AR/VR Hack, 1517 Fund Prize  
PennApps '17 - PennApps XVI Second Place Prize  
HackMIT '17 - Best Travel App  
HackPrinceton '17 - Best Internet of Things Hack  
MakeMIT '17 - Top 10 Hack

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 [arlenesiswanto.me](http://arlenesiswanto.me)

## EDUCATION

**Massachusetts Institute of Technology** | Cambridge, MA *Sep '16 - Feb '21*

- Candidate for M.Eng. with concentration in Artificial Intelligence
- Candidate for B.S. in Computer Science, Minor in Mathematics (May '20)

## WORK EXPERIENCE

**Google Brain - Incoming AI Resident** | New York, NY *Oct '20 - Oct '21*

- Will conduct deep learning research with the Brain team in 12-month residency

**DeepMind - Platforms Research Intern** | London, UK *Sep '19 - Jan '20*

- Developed alongside Research Platform Team during fall semester on platform that allows researchers to perform an initial analysis of their experiments
- Expanded analyses to support non-scalar data, such as images, arrays, and tensors

**Shell Street Labs - Quantitative Research Extern** | Hong Kong *Jan '20 - Jan '20*

- Predicted IPO market trends through regression, topic modeling, and clustering

**Jump Trading - Software Engineering Intern** | Chicago, IL *Jun '19 - Aug '19*

- Developed on equities trading team to automate configuration verification through Clang AST traversal and code generation
- Built standalone trading microplatform with real-time connections to exchanges
- Parsed and packaged messages sent via TCP/UDP, implemented reconciliation logic

**Bloomberg - Software Engineering Intern** | New York, NY *Jun '18 - Aug '18*

- Developed on the Execution Management System (EMSX) trading platform, an application used by over 20,000 traders and brokers to execute orders
- Created base model for the new action framework, implemented backend logic

**TrueMotion - Software Engineering Intern** | Boston, MA *Jun '17 - Aug '17*

- Implemented a data visualization platform to accelerate the development and performance of machine learning models

## PROJECTS

**Research with MIT CSAIL** *Spring '20*  
Working with Jonathan Frankle and Michael Carbin to explore the lottery ticket hypothesis and its relation to batch normalization in neural networks

**dormsp.am** *Spring '19*  
Platform built for the MIT community that scrapes, parses, and aggregates on-campus events advertised on email

- Released in spring 2020 with positive feedback and hundreds of weekly users

**Image Colorizer** *Fall '18*  
Generates colored images from black-and-white inputs. Utilizes ResNet for image classification and category-specific convolutional neural networks

**BeaverDocs** *Fall '18*  
A collaborative, peer-to-peer editor that allows multiple users to edit the same document without a central server. Implements a conflict-free replicated datatype for quick insert and delete and a peer-to-peer broadcasting system

**Meter** *Spring-Fall '17*  
A sharing-economy service that allows owners of unused parking spaces to list and lend their spots for discovery by drivers in the area