

Arlene Siswanto

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🌐 <http://arlenesiswanto.me>

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

 devpost.com/arlenesiswanto

 [/in/arlenesiswanto](https://in.arlenesiswanto)

 arlenesiswanto.me

EDUCATION

Massachusetts Institute of Technology | Cambridge, MA

Sep '16 - Dec '20

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

WORK EXPERIENCE

Google Brain - Incoming AI Resident | New York, NY

Jan '21 - Jan '22

- 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

Worked 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