




# Arlene Siswanto

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## COURSEWORK

6.883 (Grad) - Modeling with Machine Learning  
6.819 (Grad) - Computer Vision  
18.650 - Statistics  
18.600 - Probability  
18.065 - Matrix Methods for Data Analysis and ML

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6.S974 (Grad) - Decentralized Applications  
6.857 (Grad) - Computer Security  
6.840 (Grad) - Computability  
6.046 - Algorithms  
6.033 - Computer Systems  
6.031 - Software Construction

## SKILLS

Languages - Python, C++, Java, Javascript, Matlab, R  
Tools - React, Angular, Flask, Node, HTML/CSS, Git, AWS  
Other - Design, Product

## ACTIVITIES

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  
AIME - Top 5% of AMC takers  
Organizations - ProjX, Sandbox

## EDUCATION

**Massachusetts Institute of Technology** | Cambridge, MA *Sep '16 - May '20*  
• Candidate for B.S. in Computer Science, Minor in Mathematics

## EXPERIENCE

**DeepMind - Incoming Software Intern** | London, UK *Sep '19 - Dec '19*  
• Will develop as part of the Research Platform Team during Fall semester

**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

**IBM - Software Engineering Intern** | Cambridge, MA *Jan '18 - Feb '18*  
• Developed internal Angular platform for the Human-AI Interaction group

**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

**MIT CSAIL - Undergraduate Researcher** | Cambridge, MA *Jan '17 - Mar '17*  
• Computer vision project aimed at inferring human intention prior to an action

## PROJECTS


**Image Colorizer** *Fall '18*  
Generates colored images from black-and-white inputs. Utilizes ResNet for image classification and category-specific convolutional neural networks  
• Scraped and preprocessed images, designed CNN and trained colored images

**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

**Diff** *Spring '18*  
A publicly accessible platform that allows data scientists, researchers, and holders of data to share datasets in a differentially private manner

**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  
• Received Sandbox startup funding and conducted intensive market research

**PillAR** *Fall '17*  
*PennApps XVI Second Place Prize | PennApps*  
Augmented reality application that allows users to keep track of their medication intake through Google Vision API's image classification and web scraping

 devpost.com/  
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 arlenesiswanto.me