




# Arlene Siswanto

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## COURSEWORK

**6.819** - Computer Vision  
**6.857** (Grad) - Computer and Network Security  
**6.S974** (Grad) - Decentralized Applications  
**18.404** (Grad) - Theory of Computation  
**6.046** - Algorithm Design  
**6.034** - Artificial Intelligence  
**6.033** - Computer Systems  
**6.031** - Software Construction  
**18.600** - Probability

## SKILLS

**Languages** - Python, C++, Java, Javascript, Matlab, SQL  
**Tools** - Angular, Flask, Node.js, HTML/CSS, Git, AWS  
**Design** - Sketch, InVision

## ACTIVITIES

**Organizations** - ProjX, Sandbox  
**Programs** - Jane Street INSIGHT  
**HackPrinceton '18** - Best AR/VR Hack, 1517 Fund Prize  
**PennApps '17** - PennApps XVI Second Place Prize  
**HackMIT '17** - Best Travel App  
**HackPrinceton '17** - Best IoT Hack  
**MakeMIT '17** - Top 10 Hack  
**AIME** - Top 5% of AMC takers

## EDUCATION

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

## EXPERIENCE

**Jump Trading - Incoming Software Intern** | Chicago, IL *Jun '19 - Aug '19*  
• Will develop trading platform as a software engineering intern

**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  
• Gamified the process of fostering connections between IBM researchers

**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  
• Developed a complete Angular web application using Node.js and Webpack  
• Designed all UI/UX from initial mockups to full visualizations

**MIT CSAIL - Undergraduate Researcher** | Cambridge, MA *Jan '17 - Mar '17*  
• Computer vision project aimed at inferring human intention prior to an action  
• Batch processed large quantities of Kinect data

## 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  
• Developed Angular application with backend interaction, deployed app to Heroku

**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/arlenesiswanto](https://devpost.com/arlenesiswanto)

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