




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

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

 arlenesiswanto.me