

Edward C. Yao

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EDUCATION

Dartmouth College

Majors: Computer Science, Economics

Minor: Mathematics

September 2015 - June 2019

Overall GPA: 3.83/4.00

EXPERIENCE

Facebook | Instagram

Backend Engineering Intern

June 2018 - August 2018

Menlo Park, CA

- Implemented backend support in **python (Django)** and **PHP/Hack** for several Instagram notification types designed to help business users respond to their direct messages more effectively (specific details currently under NDA)

Johns Hopkins University Applied Physics Laboratory

Research Engineering Intern

January 2018 - March 2018

Laurel, MD

- Carried out data analysis on compilation statistics of hundreds of GitHub repositories written in **C**, **C++**, and **Java**, and trained a deep neural network to classify types of compilation errors based on Clang tokenization of relevant lines of code
- Architected and trained machine learning models in **PyTorch** and **scikit-learn** to explore possibilities of determining application state given snapshots of IoT device RAM

Dartmouth Hitchcock Medical Center

Research Assistant

June 2017 - August 2017

Hanover, NH

- Researched predictive capabilities of deep convolutional neural network models trained on sample cell slide images
- Fine-tuned various convolutional networks in **python (PyTorch)** such as ResNet and VGG on high-resolution images (larger than 15 megapixels)

Educatrium

Web Development Intern

June 2016 - August 2016

Seoul, South Korea

- Developed a web application from scratch using **AngularJS** and **Ruby on Rails** that lets students in Asia applying to American universities create profiles, upload information, and search for mentors, automating a previously completely human-managed process
- Created the frontend views in **AngularJS** and **Bootstrap**, and interfaced with other team members to sync logical REST API calls

TEACHING ASSISTANTSHIPS

COSC 1 - Introduction to Programming and Computation

COSC 10 - Problem Solving via Object-Oriented Programming

COSC 74 - Machine Learning and Statistical Data Analysis

LANGUAGES AND TOOLS

Proficient

Python, C, JavaScript, LaTeX

Experienced

Java, MATLAB, Mercurial, Git

Familiar

VHDL, Assembly, Clojurescript, Ruby on Rails, C++, PHP/Hack