

# Forest Hu

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## EDUCATION

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**Languages:** Python, Ruby, Java, PHP, Javascript, MySQL, Chinese

**University of California, Berkeley** – Berkeley, CA

**2016 – 2019**

Major: Electrical Engineering and Computer Science

Related Courses:

- Intro to Machine Learning (CS 189)
- Intro to Artificial Intelligence (CS188)<sup>†</sup>
- Efficient Algorithms and Intractable Problems (CS 170)<sup>†</sup>
- Structure and Interpretation of Computer Programs (CS 61A)
- Computer Security (CS 161)
- Data Structures (CS 61B)
- Discrete Math and Probability Theory (CS 70)<sup>†</sup>
- Linear Algebra and Differential Equations (Math 54)<sup>†</sup>
- Concepts of Probability (Stat 134)<sup>†</sup>
- Multivariable Calculus (Math 53)<sup>†</sup>
- Great Ideas in Computer Architecture (CS 61C)
- Designing Information Devices and Systems I and II (EE 16A/B)

<sup>†</sup> A+; <sup>‡</sup> Current; Unweighted GPA: 3.98

## EXPERIENCES

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**Stripe** – San Francisco, CA

**May – Present**

Software Engineering Intern

- Working on Connect backend (Stripe's flagship product)
- Developing crucial features for Top-ups, a way for platforms to directly debit money into their Stripe account.

**Berkeley Artificial Intelligence Research (BAIR) Lab** – Berkeley, CA

**January – Present**

Researcher

- Developing and testing a novel hierarchal reinforcement learning model
- Using Theano, Pytorch, openAI gym, Python, AWS-EC2

**MapFit** – New York, NY

**June – December 2017**

Software/R&D Intern

- Worked with the CTO to develop a machine learning based approach to identify doors in video
- Developed and trained convolutional neural networks on Google's Cloud Platform via Tensorflow

**CREST** – Berkeley, CA

**September 2016 – May 2017**

Software/Research Assistant

- Designed and implemented an Internet-of-Things solution to research resource consumption
- Implemented a neural network to recognize faces with CMU's openface and openCV

**City of Hope** – Duarte, CA

**June – August 2016**

Software/Research Intern

- Worked with Dr. Vaidehi Nagarajan to develop Python suite to simulate protein-ligand interactions

**The Boeing Company** – Huntington Beach, CA

**June – August 2015**

Software Engineering Intern

- Developed an application that analyzes military simulations; prototyped with the MEAN stack

## PROJECTS

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**Crypto** – Python, Javascript, PHP, MySQL

**July 2016**

Designed and implemented an original cryptosystem in Python. Utilized Javascript for front end and PHP and MySQL for account and macro creation. (Can be found at [crypto.foresthu.me](http://crypto.foresthu.me))

**Connotation Induced Technicolors** – Java

**October 2014**

Developed a program that utilizes Stanford's NLP core to translate sentiment in a literary work into a relevant color spectrum. Designed and implemented in 24 hours, and won second place at TeenHacks

## AWARDS

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**Jane Street Electronic Trading Challenge** – First Place

**July 2018**

**USACO** – Gold

**January 2015**