

Troy Zhang

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EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY

Berkeley, CA, USA

- **Year:** Junior
- **Double Major (prospective):** *B.A. in Computer Science & Statistics*
- **Expected Graduation:** Spring 2019
- **GPA:** Major GPA: 3.85 / 4.0; Overall GPA: 3.88 / 4.0

CORE QUALIFICATIONS

- **Programming Languages:** C, Python, Java, R, Swift, Ruby/RSpec, SQL
- **Specialties:** Computer Networking, iOS development, System Programming
- **Software:** R Studio, Latex, Microsoft office
- **Languages:** English, Chinese, Japanese

INTERNSHIP EXPERIENCE

Software Engineer Intern @IBM Aspera

May – August, 2017

- Core team member of Aspera, Inc.
- Maintained and accelerated the core codebase of Fasp® fast data transfer protocol (UDP-based protocol)
- Implemented interface for Azure-files storage type
- Developed Synchronization System for access file key.

RESEARCH EXPERIENCE

Blockchain and Smart Contract

September - now, 2017

- Study concepts of Smart Contract and decentralized applications
- Develop new programming abstractions for secure and decentralized systems

OpenMind Decentralized Deep Learning Platform

October - now, 2017

- Develop a decentralized platform based on Ethereum tokens and Solidity for deep learning training
- Aim to build a training platform without customer data sharing to protect privacy safety

PROJECT EXPERIENCES

Snapchat Clone (Product: iOS application cloning Snapchat which simulates its unique features)

October, 2017

Hangman (Product: iOS application which implements the game Hangman)

October, 2017

Pacman (Core ideas: A*, Reinforcement learning, Bayes net)

September - now, 2017

Approximate Algorithm for NP-Complete Problem (Core ideas: Dynamic Programming, Greedy Algorithm with heuristic values, pseudo-polynomial runtime)

May, 2017

OTHER EXPERIENCES

Cal Hacks 4.0

October 2017

Blockchain for Developers Decal

September - Now 2017

CS 70 Tutor

September - Now 2017

CS 61B Lab Assistant

January - May 2017