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
- **OpenMined 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**