

# Alexander Liu

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## EDUCATION

### University of California, Berkeley

Fall 2020

B.A Candidate: Computer Science

**GPA:** 3.73/4.0

Relevant Courses: *Data Structures and Algorithms* • *Artificial Intelligence*

**SAT:** 2340 (800/780/760)

*Probability Theory* • *Linear Algebra & Differential Equations* • *Computer Architecture*

**ACT:** 35

## LANGUAGES AND TECHNICAL SKILLS

- Python, Java, HTML5, HTML/CSS, Git
- R, SQL, BPMN 2.0

## WORK EXPERIENCE

### UC Berkeley IT Client Services

**Berkeley, CA**

Student IT Technician

September 2019 – Present

- Perform campus-wide OS upgrades, managing network registration and active directory organization
- Provide technological and usage consultation to Berkeley staff to maintain network security standards
- Fulfill service requests of UC faculty for replacement of technical equipment or software disruptions

### UC Berkeley Department of Computer Science

**Berkeley, CA**

Lab Assistant

June 2019 – August 2019

- Assist in the instruction of data structures and algorithms class during daily lab, teaching 30+ students
- Discuss and plan the curriculum and lessons with 40 other teaching staff to maximize student learning
- Host two office hours sessions weekly, offering students' specific assistance in debugging of programs

### Tom Sawyer Software (Data Visualization Software Company)

**Berkeley, CA**

Operations Research Analyst Intern

May 2018 – August 2018

- Modeled 36 interdepartmental business processes with BPMN 2.0, standardizing product dev lifecycle
- Eliminated redundant efforts and consolidated department roles, reducing time between builds 11%
- Developed visualization tool with in-house software for modeling hiring trends and salary movements

### HedgeSPA (Investment Analytics Software Start-up)

**Singapore, Singapore**

Data Engineer Intern

June 2017 – August 2017

- Created Asian asset index using R to generate Fama/French model on MSCI Asia Index constituents
- Implemented production feature using SQL queries to pull financial data updating index automatically
- Raised trial usage by 34%, redesigning user registration workflow with KeyCloak IAM and SuiteCRM

## PROJECTS

### homeBase

- Extension for Firefox/Chrome browsers to replace the default new tab page. Uses JavaScript parser to search websites directly, add shortcut keys, complete URL paths.

### Language Classifier

- Created supervised learning classifier to identify language of text between English, Spanish, Finnish, Dutch and Polish using recurrent neural network architecture

## LEADERSHIP AND EXTRACURRICULARS

### imagiCal

**Berkeley, CA**

Strategy Director

September 2018 – May 2019

- Conducted market research by analyzing 1000+ survey responses, visualizing data with R & Qualtrics
- Led 5-man team in using research to formulate market strategy as framework for a \$25M ad campaign
- Competed in National Student Advertising Comp with campaign, leading org to top 3 regional placing