Timothy Zhao

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Education

University of California, Berkeley   *Aug 2014 - May 2020*
- B.S. in Electrical Engineering and Computer Science, Class of 2020
- **Courses**: **CS** *Data Structures, Algorithms, OS, Computer Architecture, Machine Structures, Computer Security, Databases, AI, Discrete Math & Probability Theory, Linux System Administration, Front-end Web Development,* **EE** *Information Devices and Systems,* **Math** *Multivariable Calculus, Linear Algebra*

Work Experience

Voloridge Investment Management - Software Engineer   *May 2020 - Present*
- Implemented **RabbitMQ** PoC to ensure end-to-end durability of instrumentation data between applications and databases **(.NET Core, C#)**
- Researched message broker solutions to improve reliability and performance between applications

Starbutter AI - Software Engineering Intern   *Aug 2017 - May 2018*
- Utilized and enhanced existing **Python** codebase to build **Lambda** backends for flagship financial product **chatbots** and integrate them into Google Assistant (**Actions on Google**), Facebook Messenger, and a self-built web-client (**HTML, CSS, JS, Chalice**) (**DialogFlow**)
- Built a **content management system** to save Google Sheets into **DynamoDB** via a **web interface** allowing non-tech content developers to independently add material for chatbots
- Set up **EC2** service (**Prerender**) in order to automatically scrape bank rates and serve to users
- Designed system to send recurring subscription messages to Facebook & Google users
- Built **conversion tracking** and **tracking pixels** for advertisements (**HTML, Outbrain**)

Student Affairs IT, UC Berkeley - Information Security Analyst   *April 2019 - May 2020*
- Created multiple Windows Form adware **(Visual Studio, C#)** and spoofed suspicious network traffic to train department tech support **(Python, Flask)**
- Spearheaded creation of a department phishing awareness campaign by prototyping a fake login page that tracks visitors coming from phishing emails sent by IT (**JS, G Suite API**)
- Restructured & added to team's entire documentation, increasing readability & utility (**Confluence**)
- Set up bootable USB with persistent storage & forensics framework (**Sift Workstation**)

NextLesson - Software Engineering Intern   *Jun 2017 - Aug 2017*
- Automated the sending of recurring emails to users (**Python, MongoDB, SendGrid**)
- Redesigned error page and shopping cart for the company website (**HTML, CSS**)
- Updated and added features to class management webpage

Phonak LLC - Mechanical Engineering Intern   *Jun 2015 - Aug 2015*
- Characterized Polisher/Grinder in order to increase efficiency of the **Quality Assurance** process of hearing aid proprietary batteries
- Drafted **SOP**'s and **CAD** parts for team members

Skills

Proficient: Python, C#, Git, **.NET**, DialogFlow, AWS (Lambda, DynamoDB, Route 53, EC2, CloudFront)
Experience in: Java, Javascript, C, React, Flask, Bash, Chalice, MongoDB, Node.js, Prerender, Bootstrap

Personal Interests: Hip Hop Dance | Classical Architecture | Sci-Fi | Infrastructure/Urban Development