Alexander Pan

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Education

University of California, Berkeley, Berkeley, California USA

B.A. Computer Science; Expected May 2019

- GPA: 3.85/4.00
- Relevant Coursework: Databases, Computer Graphics, Image Processing & Computational Photography, Operating Systems, Artificial Intelligence, Data Structures, Algorithms, Computer Architecture, Computer Security, Discrete Math & Probability Theory, Linear Algebra

Experience

Salesforce.com, San Francisco, California USA

Software Engineering Intern (Analytics Cloud)   **May, 2018 - August, 2018**

Worked in React to develop front-end framework for Lightning Reports, a data exploration product with over 660,000 monthly active users. Used Agile methodology to create new features and produce deliverables for a 4-month release cycle.

Designed and implemented smart insertion/deletion for boolean logic on filters, improving workflow efficiency by eliminating user clicks. Developed a widget to toggle currency types for reports, providing usage flexibility for multinational companies. Helped maintain overall Reports stability on release for 4.0 million active customers.

Valor Water Analytics, San Francisco, California USA

Software Engineering Intern   **June, 2017 - August, 2017**

Optimized performance speed of an algorithm identifying water meter under-registration, reducing its runtime by 92% and allowing for scalability on larger data sets. Converted existing python code to a cloud-based SQL implementation on AWS Redshift.

Improved algorithm precision by implementing anomaly detection logic and smoothing on time series data. Wrote unit tests and reduced external dependencies to ensure production-level code quality.

Projects

findfrisbee.com (Web Application)
Developed a unified platform for organizing Ultimate Frisbee events in order to grow the sport and provide convenience. Built with Python Flask and deployed on Heroku. Includes a user and event SQL database and a time-sorted display with attendance/hosting options.

Typelearn (PC Game)
Built a terminal-based productivity game in Python, designed to improve typing speed while staying up-to-date with current events. Calculates WPM and generates text using the Reddit API to pull interesting, relevant news articles.

Skills

Computer Languages
- Proficient in Python, SQL, Java, C; Familiar with Javascript, HTML & CSS

Programming Tools
- React, Agile Development, Git, Tableau, Flask, Amazon Redshift, Bootstrap

Interests and Activities

Denmark U24 National Ultimate Frisbee Team	**September, 2018 - Present**
Cal Men's Ultimate Frisbee Team (5th at Regionals)	**August, 2015 - Present**
Ragnarok Ultimate (2018 Danish Champions)	**September, 2018 - December, 2018**
San Francisco Flamethrowers Professional Ultimate Frisbee	**March, 2018 - August, 2018**