HELEN YAN

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EDUCATION

University of California, Berkeley   Graduating May 2020
- _Major: Computer Science, Minor: Chemistry_   Cumulative GPA: 3.60
- Relevant Coursework: Computer Architecture, Discrete Math and Probability, Efficient Algorithms, Databases, Machine Learning, Computer Security, Artificial Intelligence, Operating Systems

CODING PROJECTS

Secure File Storage (Golang)
- Design and implemented a file sharing system (similar to Dropbox) with features for user accounts, file storage, and file sharing. Focused on crucial security features such as encryption and authentication.

Database (Java)
- Implemented a B+-Tree for File Indexing and different Join types for relations. Also implemented query optimization for optimizing how queries were processed. Built inside a Docker Container.

Gitlet (Java)
- Coded a version control system, similar to Git. Utilized complex trees, serializing, hashing, File I/O.

Yelp Maps (Python)
- Constructed a visualization of restaurant ratings that finds patterns and make predictions and decisions based on given features and prior data.

WORK EXPERIENCE

Pantheon Systems   May 2019 - August 2019
Software Engineering Intern   _San Francisco, CA_
- Used PHP, Go, and Python on the Core Engineering team to build and deploy various software products
- Contributed to company-wide projects to expand services to international regions, upgrade caching architecture, and improve networking services (DNS record recommendations, mandatory HSTS headers)
- Did open source work with Drush/ Drupal projects to streamline and test their integration into Pantheon

Teapplix Inc   June 2018 - August 2018
Front-End Engineering Intern   _Palo Alto, CA_
- Used React with the Ant Design package to build a new client-facing products display page that all of Teapplix's clients will use to more efficiently view their product stock.

UC Berkeley Katz Lab   March 2018 – June 2018
Undergraduate Researcher   _Berkeley, CA_
- A computational chemistry lab; used Gaussian program to compute Density Functional Theory calculations.

PROFESSIONAL AND LEADERSHIP EXPERIENCE

Voyager Consulting   February 2018 - present
Senior Consultant (formerly: Tech Manager)
- Provide strategy consulting to clients and perform data analysis, market research, and competitor analysis.
- Tiffany & Co.: used Python and R to analyze four years of sales data and draw conclusions about specific client groups. Organized a final report to be used by their executive team as well as store managers.
- Levis: Examined their Amazon Forecasting data, analyzing year's worth of internal data and using various statistical metrics to determine its efficacy as a forecasting model for Levis.

UC Berkeley Chem E Car   September 2016 – May 2019
President (formerly: Treasurer, Researcher)
- Lead a team of 70 students that work on 10 different battery and control systems
- Communicate clearly with school administration for lab space and resources and to resolve any problems
- Managed the budget, apply for sponsorships, make purchases, and keep track of reimbursement

ADDITIONAL INFORMATION

Languages: English, Chinese (Mandarin).
Skills: Java, Python, Go lang, SQL, C, Matlab, React, HTML, CSS, Git, IntelliJ, Object-Oriented Programming
Interests: Personal Finance, Stock Market, Bullet Journaling, Urban Dance, Reading, Chemistry of Skincare