

Fannie Barskhian

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EDUCATION

University of California, Berkeley

Pursuing BA in Computer Science GPA: 3.6/4.0

Berkeley, CA

Expected Graduation: June 2022

EXPERIENCE

NASA's Jet Propulsion Laboratory

Engineering Year Round Intern

Pasadena, CA

February 2020 - Current

- Worked with a team of Engineers to redevelop an internal database for the Radiation Effects Group.
- Design of Key Performance Indicators tool for mission budgeting insight.
- Currently developing code to optimize KPI insight by filtered API queries across internal databases and developing scripts to auto generate graphical assets.
- Design of external exporting automation tool which complies with ITAR guidelines.

Principles Inc

Data Analyst

Pasadena, CA

May 2017 - February 2020

- Utilized gained technological skills to provide this company with the efficiency to properly adapt to policy updates from changes in state regulations.
- Compliance Management for policy and certification upkeep for over 100 employees.

Levitate Society

Owner

Burbank, CA

September 2017 - Current

- Established USPTO Patent registries with a logo I designed.
- Developed a database for financial recording which allowed for approximately \$4,000.00 in savings for the company..

Principles, Inc.

Senior Counselor / Caseworker

Pasadena, CA

July 2016 - May 2017

- Swing Shift Head of Management for a Recovery House of 100+ patients recovering from addiction.
- Delegating staff and activities to ensure safety of patients and staff.
- Caseworker and Counselor of 9+ women dealing with a variety of mental health issues.

PROJECTS

Stocks Visualizer

February 2020 - Present

- GUI application which queries live data from yahoo finance API to generate metrics and interactive graphs for TSLA, APPL, and GM stocks.

SQL Database Built From Scratch

Jan 2018 - Current

- Developed an interactive SQL Lite database from scratch using complex data structures such as Linked Lists, BTrees, and B+Trees.

Personal Portfolio

January 2020 - Current

- Taught myself HTML / CS / and JS to develop and deploy a personal portfolio website using ReactApp.
<https://barskhianfannie.github.io/Portfolio/>

RISC-V CPU

January 2020 - Current

- Designed and developed a pipelined CPU in Logisim which can execute RISC-V instructions.

NumC

January 2020 - Current

- NumPy written in C using SIMD and OpenMP to optimize massive matrix operations by a speedup of over 1k.

ADDITIONAL

- Relevant Coursework: Data Structures, Discrete Mathematics and Probability, Machine Structures, Databases, Artificial Intelligence, Data Science, Designing Information Devices and Systems, Assembly Language
- Certificate in New Ventures Leadership - Massachusetts Institute of Technology.
- Programming Languages: Python, C, C++, Java, HTML/CSS, Javascript, SQL, Go, R, Perl, MATLAB, Swift, PHP
- Scholarships: UC Berkeley Leadership Award, Alice and Don Slater Scholarship, Tim Selinske Entrepreneurial Award
- Conversational in Armenian and American Sign Language