THU NGUYEN

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EDUCATION

University of California, Berkeley

Cognitive Science, B.A. and Computer Science, B.A. Minor (GPA: 3.2) **Aug 2016 - Dec 2019**

- **COURSES:** Structure and Interpretation of Computer Programs, Data Structures, Discrete Mathematics and Probability Theory, Efficient Algorithms, Artificial Intelligence, Machine Structures, Intro to Database Systems, Principles and Techniques of Data Science, Computer Security, React, Web Design, Illustrator + Photoshop, Operating Systems and Systems Programming

EXPERIENCE

Twitter, San Francisco, CA — Software Engineering Intern **May 2019 - Aug 2019**

- Used Scala to aggregate unsent Twitter favorite push notifications, making sent notifications more helpful and exciting to users.
- Authored design document, modified existing internal services, and wrote feature and integration tests.
- Launched AB testing with internal Twitter employees and external Twitter users, reaching hundreds of notifications sent per minute.

Google, New York, NY — Engineering Practicum Intern **May 2018 - Aug 2018**

- Spearheaded development of /spanviewer/ - a fully deployed internal Spanner database viewer capable of opening and caching arbitrary databases, querying using span SQL, formatting using custom decorators, and proxying users' private instances.
- Used Go, Stubby, Sandman, Spanner, RPCs, and Borg to write new methods for configuring row URL decorator, registering private instances in a database, testing interactions with private instances, and caching database connections.
- Authored article about /spanviewer/ - the most popular Summer 2018 intern article in Google's internal engineering newsletter.
- Currently utilized by thousands of internal engineers monthly.

Google, Sunnyvale, CA — Engineering Practicum Intern **May 2017 - Aug 2017**

- Developed UI for managing rules using automation to execute actions within the incident page in OMG Assist, Google's internal outage management dashboard.
- Used Polymer, HTML, CSS, and Clojure to create component for setting and executing rules as well as changing how rules are displayed within the module based on current execution status.

Blueprint — Developer **Jan 2019 - May 2020**

- Worked on a team to develop a web app for local nonprofit San Francisco Art Institute, allowing students to showcase and sell their artwork to patrons on a web-based marketplace using React and Ruby on Rails.
- Developed the Healthy Corners mobile app for DC Central Kitchen, allowing customers to redeem rewards for healthy produce.

ANova — Events Chair, ANova Hacks Co-Lead Organizer, Publicity Chair **Jan 2017 - Dec 2019**

- Lead organized ANova Hacks 2019, a hackathon designed for 93 beginner hackers from Bay Area low-income high schools to gain exposure to Computer Science through hands-on workshops, quality college and industry mentorship, and a beginner-friendly space.
- Co-creator and lead organizer of ANova Day, a one-day event inviting local high school students from low-income high schools to the UC Berkeley campus for lab and campus tours, college essay revision workshops, and a fun introduction to higher education.
- Taught Python, HTML, CSS, Javascript, and Snap at Bay Area under-resourced middle and high schools in Berkeley and Oakland as part of organization's mission to make quality CS education accessible to all students.

SKILLS

- Python, Java, Go, Scala, C, HTML, CSS, Javascript, React, Ruby on Rails, SQL, Google App Engine, Flask, Illustrator, Photoshop

PROJECTS

PaceBeats — [WINNER: Best Use of Fitbit API] Spectra 3.0 **Jul 2019**

- Web app creating Spotify playlists matching user's heart rate throughout a previous workout using Flask, Fitbit and Spotipy APIs.

Capsistant — Google NYC Intern IoT Hackathon **Jul 2018**

- Smart cap using Google Cloud Vision and Assistant allowing the visually impaired to explore their surroundings through audio.
- Project was presented at the New York Maker Fair in September 2018.

Color PalIT — Cal Hacks 5.0 **Oct 2018**

- Web app using Google Cloud Vision to create hex code color palettes from pictures uploaded by users, with a palette search feature using relevant tags generated by API image label detection.