Jonathan Fung

jonfung@berkeley.edu • (408) 680 3399
jonfung.me • linkedin.com/in/jonfung1 • github.com/jonfung

Education

University of California, Berkeley — 5/2020 (exp)

- B.S. Electrical Engineering and Computer Sciences
- **Overall GPA: 3.9/4.0** (Dean's Honors List)
- **Regents and Chancellors Scholarship Recipient** – Top 2% of Incoming Class
- **HKN EECS Honor Society** – Top 25% of Junior Class
- Relevant CS Coursework: Machine Learning, Operating Systems, Compilers, Security, Algorithms, Databases, Computer Architecture, Discrete Math and Probability Theory, Computational Photography
- Relevant EE Coursework: Convex Optimization, Digital Signal Processing, Signals and Systems
- Graduate-level classes: Linear System Theory, Principles of Magnetic Resonance Imaging

Experience

Pinterest *– Software Engineering Intern* — 5/19 - present

- On the **Visibility** team, working with logging and metrics. Redesigning the way core services at Pinterest report metrics with a **custom metrics** implementation. Reducing log memory footprint by up to 1000x by implementing **by-host aggregation**. Developing Spark pipeline for by-cluster aggregation.

Kleiner Perkins Fellows Program *– Engineering Fellow* — 5/19 - present

- Participating in the Kleiner Perkins (KP) fellowship program in technology and entrepreneurship

Computational Imaging Lab *– Undergraduate Researcher under Laura Waller* — 8/18 - present

- Working with optimization models and optics to perform lensless imaging, allowing for the reconstruction of 3-D images from a single shot with the aid of a diffuser.

Stripe *– Software Engineering Intern* — 5/18 - 8/18

- On the **Developer Productivity** team. **Implemented Ruby enums** in Stripe's code for the Ruby Typechecker project (Sorbet). Automatically transformed ~2,000 modules to a new enum format.
- **Integrated VSCode IDE** with Sorbet. Some features include Jump-to-Definition, Type-on-Hover.

UC Berkeley EECS Department *– CS189/289A (Machine Learning) Course Staff* — 1/19 - 5/19

- Responsible for grading homeworks and exams. Topics covered include support vector machines, gaussian discriminant analysis, various regressions, and dimensionality reduction techniques.

UC Berkeley EECS Department *– EE120 (Signals and Systems) Teaching Assistant* — 7/18 - 1/19

- Responsible for leading weekly discussion section, office hours, grading homeworks and exams, creating new content material. Topics covered include Fourier series/transforms, time series analysis, communications techniques, control systems, and filter designs.

Berkeley CodeBase *– Vice President of Operations* — 8/17 - 5/19

- Executive team for Codebase, a software consulting club at Berkeley.
- Student organization developing software products for high-growth start-ups around the Bay Area. Previous clients include Atlassian and HackerRank.

Projects

mp3-fft *– Headphone recommender using fourier transform on music* — 7/17

- Application that takes mp3 files and recommends 100+ headphones based on price, form factor, and music sound signature (bass-heavy, neutral, mid-forward, v-shaped).
- Uses the **Fourier Transform and Welch's method** to generate a power spectral density estimation of the song and classify sound signature.   site: jonfung.me/mp3-fft

Ethos *– Chrome extension that reports bias in articles via IBM Watson* — 9/16

- Winner of **CalHacks 3.0 Best Social Impact Hack**
- Analyzes articles for their level of objectivity and bias using NLP from the IBM Watson API. Aggregates author data to display bias profiles. **Real-time Facebook overlay** that analyzes newfeed articles while scrolling through a news feed.   src: jonfung.me/ethos

Awards

- **Jane Street ETC 2018** – First Place (Electronic Stock Trading Competition)
- **Accel Scholars, 2018-2019 Cohort** – 25 recipients. (Accel Venture Capital)
- **Kleiner Perkins Engineering Fellow, Summer 2019 Cohort** – 50 recipients. (Kleiner Perkins Venture Capital)

Skills

- Languages: Java, Python, Ruby, Scala, C, C++, Matlab
- Hobbies: Gardening, Marathons, Headphone Collecting, Disney Pin Collecting