

Jonathan Fung

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Education

University of California, Berkeley

8/16-5/20 (exp)

- B.S. Electrical Engineering and Computer Sciences
- Departmental GPA: 4.0/4.0 / Overall GPA: 3.96/4.0
- Regents' and Chancellors Scholarship Recipient (Top 2% of Incoming Class)
- Highlighted Coursework (CS61A, CS61B, CS70, EE16A, EE16B, Math 53)
- Data Structures • Discrete Math, Probability Theory • Algorithms (exp)
- Multivar Calc • Circuits, Control Theory, Basic Filter Design • Machine Architecture (exp)
- Linear Algebra • Discrete Time Signal Processing • Signals and Systems (exp)

Skills

Java, Python, Javascript, Matlab • Neo4j Graph, Parse Server, Node.js, NumPy/SciPy

Experience

Software Engineering Intern @ Trimian, Inc.

5/17-present

- Created an internal admin dashboard to analyze Parse Server data, wrote cron jobs to update the Neo4j graph database using Javascript, Cypher, Node.js, HTML/CSS
- Implemented in-app-purchases through Adobe PhoneGap.

Research Intern @ Stanford University Radiology Dept.

5/14-8/16

- Devised and conducted independent research project about self-assembling nanoparticles.
- Assisted with lab group research projects and the execution of a week long nanoparticle summer camp for visiting students.
- Published paper in Journal of Nuclear Medicine, gave multiple poster presentations.

Publications & Projects

mp3-fft

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](http://jonfung.me/mp3-fft)

Ethos — CalHacks 3.0 Best Social Impact Hack

9/16

- 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. [src: jonfung.me/ethos](http://jonfung.me/ethos)

Dual-Modal NIR-II Fluorescence and Photoacoustic Imaging of Thyroid Carcinoma Using EGFR-targeted Donor-Acceptor Chromophore Based Nanoprobes

5/16

- Published with Kai Cheng in Journal of Nuclear Medicine [paper: bit.ly/2mBhSBp](http://bit.ly/2mBhSBp)

Surface Specific Rationally Self-Assembling Au-Fe Oxide Nanoparticles:

5/14-8/16

A Potential Multi-Modal Imaging Agent Platform for Early Tumor Diagnosis

- Independent Research Project [posters: bit.ly/2o4W9CW](http://bit.ly/2o4W9CW)