

Berthy T. Feng

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EDUCATION

Princeton University

Princeton, NJ, Class of 2019

- BSE Candidate in Computer Science, GPA: 3.89 / 4.0
- Selected Courses: *Algorithms and Data Structures*, *Programming Systems*, *Reasoning about Computation*, *Computer Vision*, *Computer Science: An Interdisciplinary Approach*, *Computer Music*

Laurel School

Shaker Heights, OH, Class of 2015

- Lyman Prize (Valedictorian), Phi Beta Kappa Award, National Merit Finalist, Ohio State Champion in U.S. Extemporaneous Speaking, Quarterfinalist at National Speech & Debate Tournament

TECHNICAL SKILLS

Programming Languages: Java, Python, C, C++, Objective-C++, Swift
Data Analysis: R, Stata
Additional Tools: Django, Git, Max/MSP

WORK EXPERIENCE

Professor Claire Gmachl (Electrical Engineering), Research Assistant Princeton, NJ, Summer 2017

- Created Pixplor, an “intelligent photo album” iPad app for nursing-home residents with dementia. Pixplor learns user preferences to recommend photos from a database of 5+ million images.
- Developed computer vision and machine learning components, including emotion recognition, gaze tracking, and recommendation algorithm.
- Wrote server-side code to process client requests using Django REST framework.
- Wrote client-side code in Swift and Objective-C++.
- Will continue to improve the app after introducing it in local nursing homes and memory care centers.

Longbow Research, Equity Research Intern

Cleveland, OH, Summer 2014 / Winter 2016

- Developed earnings model to forecast Fossil Group’s two-year stock performance.
- Researched foodservice equipment companies to lay groundwork for analyst coverage.

U.S. Senate Banking Committee, Policy Intern

Washington, DC, Summer 2016

- Collaborated with national security policy team of Senator Sherrod Brown’s staff on U.S. Senate Committee on Banking, Housing, and Urban Affairs.
- Researched and drafted reports on money laundering and human trafficking.

SELECTED PROJECTS

3L Solutions Website (berthyfeng.com/3ls-website)

Summer 2017

- Created website for powdered metal tooling company using Bootstrap HTML/CSS/JavaScript framework.

Emotionally Intelligent Slideshow (<https://github.com/berthyf96/SlideshowDemo>)

Summer 2017

- Created a demo for Pixplor of an iOS app that allows users to flip through pictures while generating user response data, including emotion as recognized from a real-time camera feed of the user’s face.
- Wrote an Objective-C++ wrapper class to allow use of OpenCV library in Swift.

Drum Pad (https://github.com/berthyf96/sampling_pad)

Spring 2016

- Created a sampler (drum pad) for musicians to upload audio samples and play the pad as an instrument.
- Used piezoelectric sensors to send touch pressure data to an Arduino script and Max/MSP patch.

LEADERSHIP AND ACTIVITIES

HackPrinceton, Marketing Director (Organizer pre-2017)

Fall 2016 – present

- Lead Marketing team to promote semiannual, 500+ student hackathon to students, sponsors, and mentors.
- Volunteered on dev team to refactor HackPrinceton’s website code.

Princeton CS Department, Undergraduate Grader

Fall 2017 – present

- Grade assignments in introductory CS course and provide constructive feedback to students.

Music Production (<https://soundcloud.com/berthy-feng-1>)

- Produce electronic music using a mix of audio recording, analog synthesis, and digital synthesis.