Berthy T. Feng

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Education

Princeton University **Princeton, NJ, Class of 2019**

- BSE Candidate in Computer Science, Tau Beta Pi, GPA: 3.84 / 4.0
- Selected Courses: *Computer Vision, Advanced Topics in CS: Visual Recognition, Algorithms and Data Structures, Programming Systems, Reasoning about Computation, 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
Deep Learning Frameworks:	TensorFlow, Caffe
Additional Tools:	Django, Git, Max/MSP, R, Stata

Work Experience

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

- Created Pixplor, an 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 estimation, gaze tracking, and recommendation algorithm.
- Wrote server-side code to process client requests using Django REST framework and client-side code in Swift and Objective-C++.

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 (3l-solutions.net) **Summer 2017**

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

Emotionally Intelligent Slideshow (GitHub) **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 (GitHub) **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

Princeton CS Department, Lab TA & Undergraduate Grader **Fall 2017 – present**

- Help students from three different introductory CS courses understand assignments and important concepts.
- Grade assignments in introductory CS course and provide constructive feedback to students.

HackPrinceton, Marketing Director (Organizer pre-2017) **Fall 2016 – present**

- Lead Marketing team to promote semiannual, 600+ student hackathon to students, sponsors, and mentors.
- Refactored main website as a volunteer on dev team.

Music Production (SoundCloud)

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