# MONICA TANG

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## Experience

### Software Engineering Intern at Facebook
Jun. 2018 – Aug. 2018  |  Seattle, WA
- Strengthened skills in Android development through the 8-week Facebook University for Engineering program
- Collaborated with 2 others over 5 weeks to develop an Android recipe social media app that provides voice controlled, step-by-step recipe dictation and present it in a final prototype forum
- Implemented app using Java, Android Studio, PocketSphinx speech recognition, Parse, and the Android text to speech engine with mentorship from a full-time software engineer
- Built 4 apps over 3 weeks of Android development training under CodePath, including a Twitter client and Instagram remake

### Design Consultant at Berkeley Innovation
Sep. 2017 – May 2018  |  Berkeley, CA
- Provided design solutions to companies on interdisciplinary teams of 4 through semester-long projects as part of UC Berkeley's premier human-centered design consultancy
- Operated under 4 2-week agile sprints: user research, ideation and lo-fi, mid-fi and user testing, and hi-fi and usability testing
- Held weekly client meetings with CEOs of mobile app startups Elemeno Health and SkyAlert, which has 5+ million users

### Co-Marketing Director at The Berkeley Project
Dec. 2017 – present  |  Berkeley, CA
- Promote an 8-hour city-wide semesterly service event that attracts 1,500+ volunteers and saves the City $500k+ annually
- Designed 1,200 t-shirts and 3,200 bookmarks distributed in record time and managed Facebook page with 2,700+ likes

## Projects

### Enigma
Oct. 2018
- Built a simulator of the WWII German machine "Enigma," which implements a progressive substitution cipher to encrypt and decrypt messages given an initial machine configuration
- Utilized HashMap, ArrayList, and Scanners in Java to handle string manipulation, data mapping, and file reading

### Scheme Interpreter
Apr. 2018
- Developed a Scheme interpreter in Python optimized for tail recursion that supported most Scheme expressions

## Education

**University of California, Berkeley**
Class of 2021
- B.A. Computer Science
- Overall GPA 4.0

## Skills

**Languages**
- Proficient in Java, Python
- Familiar with JavaScript, HTML, CSS, SQL

**Tools**
- Jupyter Notebook, Android Studio, IntelliJ, Unity, Git
- Adobe Creative Suite (Illustrator, InDesign, Photoshop, Lightroom)
- Figma, InVision, Sketch, Maya

## Coursework

**Current**
- Data Structures
- Discrete Mathematics and Probability Theory
- Virtual Reality
- 3D Modeling and Animation

**Past**
- Structure and Interpretation of Computer Programs
- Designing Information Devices and Systems I