

Sabrina Ko

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Experience

Software Engineer

HealthVerity

Jan 2020 – Present

Philadelphia, PA

- Refactored legacy React to meet ES6 standards and created unit/integration tests with Jest
- Created a data visualization dashboard of COVID-19 vaccine distribution with AWS QuickSight
- Led efforts to improve company-wide documentation through steps in the CI/CD process
- Developed management tools for AWS Lambda pipeline with Docker + EC2
- Drafted company's public diversity statement in coordination with Marketing team as an inaugural member of Equity, Inclusion, & Diversity Council

Lead Mobile Developer

Hava Health

Aug 2018 – Jan 2020

Philadelphia, PA

- Developed and extensively documented iOS and Android apps for connected nicotine cessation device for startup backed by VCs such as Backstage Capital, Village Global, Quake Capital
- Programmed a BLE (Bluetooth Low Energy) connection pathway with company's custom PCB, established communication standard between device and phone
- Utilized core frameworks, RESTful API, and 3rd party libraries

Software Engineering Intern

FlashStarts Accelerator

May 2018 – Aug 2018

Cleveland, OH

- Polished UI/UX of iOS app for B2B startup in conversion to paperless options
- Produced high-fidelity prototypes of nicotine cessation app using Swift
- Increased social media KPIs for startup, Twitter following by 18% and tweet impressions by 332%
- Designed and constructed Wordpress websites for two startups

Software Developer and Web Development Intern

5 College Learning in Retirement

Dec 2016 – May 2018

Northampton, MA

- Built GUI in Java to assist in lottery selection process, cutting process from weeks to minutes
 - Implemented sorting through comparators on data from Microsoft Access spreadsheets using Apache POI API, while accounting for prioritized constraining fields
 - Updated WordPress website with interactive course catalog designed to be easily navigable by senior citizens
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Education

Smith College

B.A. English Literature, Computer Science Minor

Northampton, MA

Sep 2014 - May 2018

- Computer Science GPA: 3.72/4.00
 - Ethel Olin Corbin Poetry Prize Winner 2016
 - Mary Augusta Jordan Poetry Prize Winner 2018
 - Asian/Pacific/American Studies Certificate
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Projects

Alarm Smartwatch Wearable | C++, PlatformIO, VS Code, Arduino

Feb 2021 – Present

- Developed C++ application for ESP32 microcontroller within a LilyGO TTGO T-Watch to create a smartwatch with multi-alarm functionality, wifi RTC sync, and power management
- Deployed using PlatformIO extension in VSCode, prototyped in Arduino IDE

Color Journal | React, Firebase, HTML, CSS, Javascript

Feb 2021 – Mar 2021

- Created React app with Firebase backend for logging moods through colors with optional notes
- Set up email authentication and database rules to restrict access to data to only show information related to logged in user

Portfolio Website | HTML, CSS, Javascript, Netlify

Dec 2020 – Feb 2021

- Researched standard practices for accessible website design and implemented visually accessible color palette and site hierarchy structures
 - Utilized vanilla HTML/CSS/Javascript to experiment in building without frameworks and libraries
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Technical Skills

HTML, CSS, Javascript, React/Jest, Python, Zsh/Bash, Git, Docker, AWS (S3, QuickSight, Lambda), Jenkins CI/CD, Gatsby, Adobe XD, Firebase, Swift, XCode, Kotlin, Android Studio, Java, Unity, C#