MELISSA WEN
SOFTWARE ENGINEER

EDUCATION

University of Southern California — Expected May 2020
Objective: B.Sc. Computer Science, minor in Music Production | **GPA:** 3.4 / 4.0
Courses: Algorithms Analysis, Data Structures, Software Engineering, Artificial Intelligence, Computer Architecture, Professional C++, Embedded Systems, Audio Engineering

National University of Singapore — Spring 2019 Exchange
Courses: Database Systems Implementation, Interaction Design, Sound + Music Computing

WORK EXPERIENCE

Software Engineering Intern @ Honey — Aug 2019 – Dec 2019

Software Engineering / Site Reliability Intern @ Google — May 2019 – Aug 2019
Developing features for an internal diagnostic tool for Cloud storage stockouts, which have diagnosed the cause of over 27,400 bad minutes. Contributed a new distributed framework to improve performance and reliability. Performed QA analysis by creating a test server, implementing stubs to connect to production services, and writing extensive unit tests.

Frontend Developer @ EventAll — Jun 2018 – Dec 2018
Created user flow, engineered media selection features, and implemented authentication. Collaborated with design team to build interface and review others' development work.

Research Intern @ Tsinghua University in Beijing — Jun 2018 – Jul 2018
Deployed and maintained an online tool implementing the DBSCAN algorithm to visualize clusters of spatial data. Developed a caching system to speed up recomputations.

PROJECTS

Netwerk: Tinder for Professionals // React Native, Java, SQL — Feb 2018 – Apr 2018
Android app where professionals can connect, based on Tinder's swipe framework. Conceptualized user interface with Figma and programmed swiping and location features. Created database and set up endpoints for full stack integration.

Remembrall: Healthcare Assistant // Javascript — AthenaHacks, Feb 2018
Medicine reminder and emergency contact system for elders utilizing the Amazon Echo. Wrote AWS lambda function to parse speech and send text alerts. Winner of Amazon sponsor prize for best use of Amazon Web Services.

Hacktube: Online Censorship // HTML, CSS, Javascript — SB Hacks, Jan 2017
Chrome extension that censors profanity in the comments section of Youtube videos. Won MLH's #HackHarassment challenge and 2nd place at SB Hacks. Featured in the Daily Nexus.

Succinct: Presentation Creator // HTML, CSS, PHP — Hack@UCI, Jan 2017
Transformed paragraph text into presentation slides by using natural language processing to concatenate keywords into bullet points. Won Organizer's Choice category at Hack@UCI.

CONTACT

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SKILLS

Proficient: Java, Go, C++, Javascript
Familiar: C, Python, HTML, CSS, SQL
Frameworks: React, ES6, Jest, D3, Node, jQuery, Flask
Devops: Unix, Linux, Git, AWS, Docker

ACTIVITIES

Webmaster + DJ @ KXSC Radio
Created new responsive content architecture for website. Maintained site content. Hosted a weekly on-air show, administered intern trainings, and supervised technical projects.

Developer @ CAIS++
Student branch of USC's Center for Artificial Intelligence in Society. Build projects and learn new topics in AI.

Developer @ Corpus Callosum
USC's art + technology organization. Developed an audio visualization tool using C++ OpenFrameworks.

Tutor @ Joint Educational Project
Prepared and delivered weekly introductory lessons on computer science fundamentals to 26 3rd-graders at Bright Elementary.

Admissions Ambassador @ USC
Facilitate events for new students. Represent USC via emails, phone calls, and interactions with guests.