Tao Wang

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Summary	Software Engineer with ~5 years of experience on mobile and Android OS development, and large-scale service with billions of users. Interested in full-stack and platform development for large-scale systems.

Language & Skills

Java, C/C++, Go
Large Data Processing, System Monitoring and Alerts, Mobile Development.

Professional Experience

YouTube, Alphabet Inc.
Software Engineer, San Bruno & Mountain View, CA — Sep 2021 - Present
- Worked on YouTube Shorts team, go-to person for sharing, user education and Shorts Trends.
- Enabled user engagement on Shorts Ads, designed and implemented pipeline for collecting and processing user sentiment signal.
- Led efforts to visualize Trends across Shorts surfaces
  - Designed and implemented end-to-end system with server processing of Trends signal and cross-platform client visualization.
  - Designed and implemented real-time categorization and slicing of Trends signal by user, region, etc.
- Developed a framework for running featured promotional Shorts videos.
  - Initiated, led and coordinated the project across multiple partner teams to deliver the product.
  - Framework allows marketing to run promotional and educational videos in arbitrary positions in Shorts Feed.
- Implemented Pull-to-refresh feature for YouTube Shorts.
  - Led the end-to-end design from recommendation to user-facing components.
  - Refactored Android Shorts Player logic to improve maintainability.
- Helped and mentored junior engineers on the team.

Google, Alphabet Inc.
Software Engineer, Mountain View, CA — May 2018 - Aug. 2018
- Worked on Google Fi and eSIM team.
- Designed the architecture for Android OS support for Multiple-Enabled eSIM (a.k.a. dual eSIM).
- Led a full codebase migration to a different code serving infrastructure.

Google, Alphabet Inc.
Software Engineering Intern, Mountain View, CA — *May*. 2018 - Aug. 2018
- Implemented a complete eUICC & LPA simulator for eSIM by GSMA SGP.22 with GUI using Java and JavaScript.
Software Engineering Intern, Mountain View, CA — Jun. 2017 - Sep. 2017
- Worked on text processing and user interface on Google Assistant iOS using Objective-C and iOS development tools.

Education

DARTMOUTH COLLEGE, *Thayer School of Engineering*, Hanover, NH — Sep. 2016 - Mar. 2019
Bachelor of Engineering in **Computer Science and Engineering.**

MIDDLEBURY COLLEGE, *Department of Computer Science*, Middlebury, VT — Aug. 2014 - May 2018
Bachelor of Arts in **Computer Science**, minor in **Mathematics**.

Publications

Auracle: Detecting Eating Episodes with an Ear-mounted Sensor — Oct. 2018
*Shengjie Bi, **Tao Wang**, Nicole Tobias, Josephine Nordrum, Shang Wang, [et al, including David Kotz]*
Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (Ubicomp), Singapore

Towards a Wearable Sensor for Eating Detection — Jun. 2017
*Shengjie Bi, **Tao Wang**, Ellen Davenport, Ronald Peterson, Ryan Halter, Jacob Sorber, David Kotz*
Proceedings of the 2017 Workshop on Wearable Systems and Applications (WearSys), Niagara Falls, USA