8540 E McDowell Rd, #62
Mesa, AZ 85207

TREVOR OTTO FORREY

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EMPLOYMENT

Software Engineer, Intern	**Garmin**	**Summer 2018 – Present**

Aviation Displays
- Optimizing loading and rendering of a 3d terrain modeling library for 3d situational awareness during flight.
- Developing a robust terrain loading algorithm to provide stable rendering.
- Analyzing quality of 3d rendering to determine a heuristic for smooth terrain at different distances.

Software Engineer, Intern	**The Boeing Company**	**Summer 2016 – Fall 2017**

Apache Helicopter Program
- Created, debugged, and maintained mission critical test scripts to support updates to the Apache program.
- Worked collaboratively on an agile team to provide efficient code development.
- Successfully tested multiple complex partitions of the Apache program.

Coding Tutor	**Code HS**	**Spring 2016 – Summer 2016**

- Mentored and helped students with questions involving various computer science topics.

EDUCATION

Mesa, AZ	**Arizona State University**	**Spring 2014 – May 2019**

- B.S. in Software Engineering, May 2018. GPA: 3.9/4.0
- M.S. in Software Engineering, May 2019. GPA: NA/4.0
- Coursework: Distrib/Multiprocess Oper Sys; Web Apps and Mobile Systems; Databases; Distributed Systems; Advanced Data Structures and Algorithms; OO Software Dev; Software Design; Micro Comp. Architecture

TECHNICAL EXPERIENCE

Projects
- **Microservice Grading** (2018). Web application that utilizes orchestration of multiple microservices to provide grading information on a database of students. Java, Docker
- **Subway Shibori** (2018). Wearable tech project that animates LEDs based on user's current speed, along with customization options via a web bluetooth app. Javascript, C
- **Web Bluetooth App** (2018). Web app that allows control and programming of a bluetooth robot. Javascript
- **Concurrent Crawler** (2017). Concurrent web crawling server that returns images while crawling. Golang
- **Multithreaded Proxy** (2017). Local proxy server that uses an LRU cache to store most recent requests. Java
- **Organic Robotic Head** (2016). Interactive art piece with a motorized head and field of LEDs that react to the capacitive touch of the user. C

INVOLVEMENT

Polytechnic Computer Science Club	**Fall 2015 – Present**

- Led interview practice sessions.
- Presented a talk about concurrency primitives in Go.
- Contributed to weekly newsletter to inform club members of local and national hackathons.

Languages and Technologies
- Java; Javascript; Go; C; NodeJS; Python
- Git; Web Bluetooth; VueJS; REST; Web Services; Agile Process