

Alex Ball

me@alexjball.com • linkedin.com/in/alex-j-ball • github.com/alexjball • Looking for opportunities: **no**

SOFTWARE ENGINEER

Full-stack applications, novel user experiences, complex problems, simple solutions

Experience designing and building in all layers of the stack: embedded devices, mobile clients, frontend servers, and backend servers.

Experience leading engineering in an Agile environment in collaboration with PM/UX/external stakeholders.

My core values: being mission-driven, attention to detail, organization, mutual respect and honesty, a high quality bar, and a focus on outcomes. Most importantly, software should help people. I am excited to work in teams that share these values.

TECHNOLOGIES

Android, React/React Native, Node, CI/CD, TDD/BDD, Javascript, Java, Python, C, Matlab

PROFESSIONAL EXPERIENCE

Cantina Consulting, Boston, MA. *Senior Engineer* **January 2020 - Present**
Developing full-stack applications in a variety of domains.

Verily Life Sciences, Cambridge, MA. *Software Engineer* **October 2018 - June 2019**
Feature developer for Onduo, a Type-II diabetes management app. Responsible for requirements gathering, design, and full-stack implementation.

Google, Cambridge, MA. *Software Engineer* **June 2016 - October 2018**
Developed voice search and Google Assistant functionality for Wear OS, an Android-based smartwatch.
Responsible for the integration between the Assistant and system UI.

HST Solar, Remote to Los Angeles, CA. *Software Engineer* **July 2015 - March 2016**
Modeled ROI of utility-scale solar power plants. Created innovative plant layout optimization techniques using mixed integer linear programming. Provided high-level feasibility analyses to founders and demonstrated software for clients.

PROJECTS (See Github)

Share Space (React, Node, Vagrant, Linux sysadmin) **September 2019 - Present**
Remote collaboration tool for sharing a virtual desktop between users. Users can view a low-latency video stream of the desktop and pass remote control between each other.

Migrant Service Map (Volunteer with Code for Boston) (Mapbox, React, Redux) **June 2019 - Present**
Allows social workers to easily locate and share information about immigration and refugee services.

Python Audio Lab **June 2019**
Library for live, interactive audio graph processing in Jupyter notebooks. Includes a notebook to perform live measurements of electric guitar pickup frequency response.

Video Feedback Simulation (Javascript, Three.js, WebGL) **March 2016 - 2017**
Generative art. Users can intuitively manipulate fractals, generate extremely high resolution renderings, or set the simulation to run by itself.

EDUCATION

California Institute of Technology, Pasadena, CA **June 2015**
BS, Major Physics, Minor Computer Science, Honors
GPA: 3.8 / 4.0