

# Alex Ball

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linkedin.com/in/alex-j-ball • github.com/alexjball • Open to opportunities: **no**

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## 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 results. Most importantly, software should help people. I am excited to work with teams that share these values.

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## TECHNOLOGIES

**Preferred:** Modern Javascript, Node, CI/CD, C++. **Also:** Java, Python, C, Android, Matlab

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## PROFESSIONAL EXPERIENCE

**Cantina Consulting**, Boston, MA. *Senior Front-End Engineer* **January 2020 - Present**

**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.

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## 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.

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## EDUCATION

**California Institute of Technology**, Pasadena, CA **June 2015**

**BS, Major Physics, Minor Computer Science, Honors**

GPA: 3.8 / 4.0