

# /\* ashwin agarwal \*/



i explore how technology and design can enhance artistic expression.

i think a lot about urbanism, transport, and public spaces.

Email: [me@ashwinagarwal.com](mailto:me@ashwinagarwal.com)

Portfolio: [myfirstandlastname.com](http://myfirstandlastname.com)

GitHub: [github.com/aaga](https://github.com/aaga)



## experience;

### Mozilla. Full-Stack Software Engineer

2022 — Present

- Coordinated product development **across 7 teams and 15+ repos**; interfacing with client orgs.
- Complex system design for a novel research tool: user accounts, telemetry, data ingestion, analysis.
- React (TS) / Svelte / SASS / WebExtensions / Firebase / GCP / BigQuery / Terraform / Analytics

### Freelance. Software Developer

2020 — Present

- Automation, Web Scraping, Data Aggregation, Visualization, Embedded Systems, Mobile Dev.

### Local Projects Design Studio. Creative Technologist

2019 — 2020

- Designed and implemented a new real-time location system protocol in Google Protobuf.
- Prototyped novel physical interactions using OptiTrack Motive and Dataton WATCHOUT.

### National Museum of Mathematics. Interactive Technology Intern

Fall 2018

- Electron JS / Arduino / printed circuit board / RFID / LEDs / Teensy

### Facebook. Software Engineering Intern

Summer 2018

- Objective-C / C++ / iOS, CoreFoundation, pthreads / C# build system

### Stanford. Teaching Assistant for Computer Science

2016 — 2019



## projects;

**24 segments.** Dynamic light installation. Fluorescent tubes, arranged in a grid.

Selected for *6th Annual Undergraduate Juried Exhibition*, Stanford Art Gallery

**Subway Clock.** Live departure board for your local subway station.

**scribbly boi.** A gentle, human-like scribbling algorithm, using p5.js.

**Drip Drop.** 48-hour Film Festival 🎬. Grand Jury Winner. Audience Award Winner.

**Surrounded.** Sound art installation. Max MSP. Wood, acrylic, actuators. Pair project.



## education;

### Stanford University. B.S. in Computer Science. GPA: 3.9

June 2019

**Human-Computer Interaction.** Designing for Public Spaces. Computer Systems.



## skills and interests;

**Technical Skills.** C++, JS, React, Node, Python, C#, Obj-C. GCP. Raspberry Pi, Arduino, ESP.

**Rowing.** International Gold Medal 🏆 for the Great Britain Team. National Record holder.

**Volunteering.** London Science Museum, National Museum of Mathematics.