

# /\* 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).



## education;

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

*June 2019*

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



## work experience;

**Freelance.** Creative Technologist

*2020 — Present*

- Automation, Web Scraping, Data Aggregation, Visualization, Embedded Systems, Mobile Dev.
- Google Cloud Platform / React JS / Expo / Python / p5.js / ml5.js / D3.js / ESP32

**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.
- Built an all-purpose inter-application communication server with Node.js and socket.io.

**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*



## artworks;

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

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

**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.

**Pottied Plant.** Tactical interventions in public restrooms. Plant materials.

**LED Fountain.** Large-scale Arduino-controlled light structure. Class project.



## skills and interests;

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

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

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