

# Matthew Fan

Developer + Designer + Engineer

**Objective:** To gain experience in product design and development, and create interesting products and systems.

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**Portfolio** | [github.com/mattjfan](https://github.com/mattjfan)  
[dribbble.com/mfan](https://dribbble.com/mfan)

**Website** | [mattfan.me](http://mattfan.me)

## Education

### B.S. Computer Science + B.S. Mechanical Engineering

Expected May 2020 | University of Maryland, College Park

•GPA: 3.896

•Banneker-Key Scholar (4-year full scholarship)

•Entrepreneurship and Innovation Program (Honors College)

## Skills

### Programming

Python ●●●●●  
Java ●●●●●  
HTML/CSS ●●●●●  
C ●●●●●  
AWS ●●●●●  
Haskell ●●●●●  
Javascript ●●●●●  
SQL ●●●●●

### Design

Illustrator ●●●●●  
Photoshop ●●●●●  
Flash ●●●●●  
Graphics ●●●●●  
Prototyping ●●●●●  
UI/UX ●●●●●

### Engineering

Fabrication ●●●●●  
CAD ●●●●●  
Molding ●●●●●  
3D Printing ●●●●●  
Circuitry ●●●●●  
Analysis ●●●●●

## Experience

### Executive Director, Startup Shell

May 2017 - Current | College Park, MD

- Manage a student-run incubator with over \$20 million in combined value across current ventures.
- Develop and maintain relationships with corporate and university partners, and alumni.
- Manage day to day operations, supporting the over 20 active ventures in the Shell.

### Founder, Quarky LLC.

Aug 2016 - Aug 2017 | College Park, MD

- Founded a toy design company that develops and 3-d prints abstract strategy games.
- Drafted and developed unique IP, and am patent pending for one of my designs.
- Managed production, shipping, and payment logistics for a made-to-order hardware venture.

### Machinist, Protocad

May 2015 - Aug 2015 | La Plata, MD

- Worked on multiple contracts simultaneously and effectively managed deadlines.
- Fabricated high-tolerance parts from technical drawings.
- Molded, casted, and finished professional-grade prototypes and models.

## Recent Projects

2017

### Kudzu

- Developed front-end, database, and back-end code for a collaborative ed-tech platform.
- Designed UI and UX components, and implemented code to render across devices.
- HTML, CSS, JS, PYTHON, FLASK, PEEWEE, SQL

### Fission

- Developed web-scraper, back-end, and email formatter and bot for a social activism platform.
- HTML, PYTHON, SPARKPOST

### Over Sand Vehicle (ENES100)

- Developed behavior for an autonomous vehicle with an actuated sensor array.
- ARDUINO, CAD, CIRCUITRY