

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
dribbble.com/mfan

Website | 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 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

- Molded, casted, and finished professional-grade prototypes and models.
- Worked on multiple contracts simultaneously and effectively managed deadlines.
- Read and edited technical drawings, and interpreted drawings to produce high-tolerance parts.

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