

Madison Wang

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EDUCATION

Stanford University — BS in Computer Science. GPA: 3.64

Fall 2017 – Exp. Grad: June 2021

CS 107: Computer Organization & Systems
CS 109: Probability for Computer Scientists
CS 103: Mathematical Foundations of Computing
CS 221: Artificial Intelligence

Math 51: Linear Algebra and Multivariable Calculus
CS 110: Principles of Computer Systems
CS 230: Deep Learning
ME 101: Visual Thinking

Wharton & Penn Engineering, University of Pennsylvania

July 2016

Jerome Fisher's Management & Technology Summer Institute | Course: *Technology, Innovation and Venture Development*

PROFESSIONAL EXPERIENCE

Facebook — *Software Engineer Intern*

June 2018 - August 2018

- Worked in a team of three and developed an Android app in Java that reduces political polarization in media; Collaborated on Github.
- Built infrastructure and used synchronization techniques to control access to common resource by multiple threads.
- Created news population algorithm: Given user's political affiliation, generates & utilizes beta distribution (PDF) to curate news feed.
- Built user interface, data visualization platform, SQLite client-side handlers, & client to parse and display top news from external API

Medtronic — *Software Engineer Intern*

June 2017 - August 2017

- Developed Excel software in VBA that saves Medtronic \$400,000+/year (2 FT) by optimizing the data collection & lab testing process
- Gained practical knowledge of product development life cycle by bringing an idea from concept to prototype
- Gathered user needs from engineers & other potential users of the prototype & materialized user needs into Excel Macro functions & features. Performed cyclic code reviews & implemented feedback during development
- Developed documentation suite for macro installation. Trained 60+ people on installation & use of the macro.

STARTUP INITIATIVES

Private-Label Amazon Business: izyla — *Sole Proprietor*

Oct 2018 – Current

- \$25k Monthly Revenue. \$10k Monthly Profit. Link to Stats: <https://imgur.com/a/uHU0yeS>
- Through extensive product research, found viable niche for product and effectively differentiated product from competition
- Facilitated successful negotiations with China supplier resulting in high profit margins (40-50%) and quality-assured goods
- Executed a successful launch plan – in 2.5 months, product ranked from #1378 to #4 of niche and gained 70 reviews (4.3 stars average).
- Optimized listing: fine-tuned keyword, photo, and description optimization. Collected social proof – reviews.
- Through keyword, photo, and product description optimization, Amazon advertising campaigns,

WatchItBand LLC — *Founder*

July 2016 – Jan 2018

Sexual assault prevention wearable. Can send texts for help or call to police. Incorporated, provisional-patented.

- Developed front-end and back-end for company website
- Engineered working MVP prototype with Arduino; created app mockups; designed the user interface for Android app
- Conducted market research by interviewing UPenn students & compiled business plan.

Leozarb — *CEO and founder*

April 2015 - July 2016

iOS Spanish App for middle schools; website development for immigrants & low-income families

- Prepared company presentation, commercial, & business plan. JA Comp. National Finalist & “EY Social Innovation Award”

Cheesium — *CEO and founder*

July 2012 - August 2015

Minecraft Multiplayer Server that was first ran off laptop & grew into a 5-figure startup

- \$61k Revenue. \$39k Profit.
- Individually managed hardware investments (*ddos-protected 64GB Intel Xeon E5 E5-1620v2*), software (CentOS, coding java plugins), and ingame mechanics (buildings, gameplay, ranks, player-retention) of multinational Minecraft server
- Managed investments and advertisements up to \$1,700 and partnered with famous Youtuber JeromeASF (4.3+ million subscribers)

PROJECTS & SKILLS

Programming

- Synthetic Aging of Faces (Python) Dec 2018
Used CGANS and CAAE to synthetically age an image of a person's face across various age groups.
- PianoNet: Deep Neural Network for Automatic Music Transcription (Python) June 2018
Collaborated on DNN that converts WAV recordings of piano music to .MIDI music score
- Gaussian Elimination (Python) June 2017
Programmed Linear Algebra algorithm that solves a system of linear equations of any magnitude
- Redesigned & mobile optimized *Piccadilly Prairie's* checkout software UI using HTML, CSS, & Bootstrap: [Before](#) and [After](#)

Proficient in:

• Java, C++, C, Unix, VBA, HTML/CSS, Python

Experienced in:

• SQL, JS, PHP

Web Development

2012 - Current

- [Portfolio link \(imgur.com/a/Y8Vgu\)](#) 13 websites developed including: maddiewang.com, impactmed.org, & pronomis.com