

# Madison Wang

[me@maddiewang.com](mailto:me@maddiewang.com) | 651-285-7450 | [linkedin.com/in/maddiewang](https://www.linkedin.com/in/maddiewang) | Stanford, CA

## EDUCATION

**Stanford University** 2017-2021 (*Expected Grad. Date*)

*Prospective Major: Computer Science –AI*

Year 1 Coursework: CS 106b, CS 103, CS 107, CS 109, Math 51, CS 110

**Wharton & Penn Engineering, University of Pennsylvania** July 2016

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

**Mounds View High School** 2013-2017

*12+ AP courses | ACT: 34 | UW GPA: 3.961*

Related Coursework: Multivariable Calculus, Linear Algebra, AP Computer Science, AP Physics C (M&E)

- Notable Awards: National Center for Women and Info Tech: 2017 National Award for Aspirations in Computing (Top 1.4% of 3,500+ Applicants); Junior Achievement Company Nationals: EY Social Innovation Award, National Finalist

## PROFESSIONAL EXPERIENCE

**Medtronic — Software Engineer Intern**

July 2017 - August 2017

- Developed Excel software which will save 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. Languages used: VBA

**WatchItBand LLC — Founder**

July 2016 - Current

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

- 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 & compiled business plan. Currently provisional patented & planning a 2018 release & gofundme

**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 a 3,000 userbase Minecraft server
- Managed investments and advertisements up to \$1,700 and partnered with famous Youtuber JeromeASF (4.3+ million subscribers)

## PROJECTS

**Programming**

2012 - Current

- MS Word → Excel → XML converter (VBA)  
Algorithms coded: Permutation system, MS Word custom regex, vector matching, & export multiple files. 3000+ lines
- Gaussian Elimination (Python)  
Programmed Linear Algebra algorithm that solves a system of linear equations of any magnitude
- Redesigned & mobile optimized *Piccadilly Prairie's* checkout software UI: [Before](#) and [After](#). (HTML/CSS/Bootstrap)
- Other projects: Blackjack (Java), Vigenere Cipher (C), & [Cloud storing & formatting of file uploads](#) (JS)

**Web Development**

2012 - Current

- [Portfolio link](#). 13 websites developed including: [maddiewang.com](http://maddiewang.com), [candypax.com](http://candypax.com), [watchitband.com](http://watchitband.com), [mvmagazine.org](http://mvmagazine.org), [maihoasalon.com](http://maihoasalon.com), [razsafe.com](http://razsafe.com), [chaosalterations.com](http://chaosalterations.com), [dev.rosevillepolicefoundation.org](http://dev.rosevillepolicefoundation.org), & [impactmed.org](http://impactmed.org)

**Leozarb — CEO and founder**

April 2015 - July 2016

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

- Key player in the company's interview, pitch, presentation, commercial, and business plan development. Named JA Comp. Finalist & "EY Social Innovation Award"

## SKILLS

**Proficient in:**

- HTML/CSS, C++, Java, Python, VBA

**Experienced in:**

- C, JS, Linux CentOS

## EXTRACURRICULARS

**Stanford**

2017 - Current

- Solar Car, chamber orchestra, tennis, Society of Women Engineers, blogging

**Mounds View High School**

2013 - 2017

- Tennis (varsity captain), district art & literature magazine (editor in chief), viola, social justice club (founder), art, entrepreneurship, & stocks