

Gautam Mittal

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gautammittal.com

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Experience

- **Copilot Support Line** Palo Alto, CA
Executive Director *October 2017 - present*
 - Currently building an anonymous peer-to-peer mental health counseling service for teens. Expected to launch at Gunn High School in Winter 2017.
- **Copilot Support Line** Palo Alto, CA
Technology Director *June 2016 - October 2017*
 - Wrote codebase for anonymous peer-to-peer mental health service, managed technical staff, secured grants alongside Executive Director.
- **Edmodo** San Mateo, CA
Research Intern *June 2017 - August 2017*
 - Built machine learning and data processing scripts to revitalize user-generated content for AskMo, Edmodo's content-driven curiosity engine.
 - Assembled new datasets, wrote deep neural network models, and prototyped pipelines to classify raw user content for experimental use under the supervision of Hannes Marais.
- **NanoCoders** Palo Alto, CA
Instructor & Curriculum Developer *June 2016 - July 2016*
 - Developed curriculum for NanoCoders's inaugural Python Game Development Camp.
 - Instructed students in addition to facilitating curriculum implementation.
- **MakeGamesWithUs (YC W12)** Palo Alto, CA
Game Development Intern *June 2013 - August 2013*
 - Developed mobile games using the cocos2d libraries with MakeGamesWithUs (now MakeSchool) during their 2013 internship program.
 - "Blend: Fruity Insanity!", a fast-paced matching game.
 - Featured by MakeGamesWithUs, Palo Alto Weekly, San Francisco Chronicle, and Knowledge@Wharton.
- **MakeGamesWithUs (YC W12)** Palo Alto, CA
Game Development Intern *June 2012 - August 2012*
 - Developed games for iOS using Kobold2D in addition to beta-testing their new curriculum; Youngest intern ever at age 12.

Education

- **Henry M. Gunn High School** Palo Alto, CA
General Education, GPA: 4.3/4.0 *2014 - 2018 (expected)*
 - President of United Computations (CS Club), TEDx, and Tri-M Music Honor Society.
 - Organized GunnHacks 2.0, 3.0, 4.0; Provided educational hackathon to 200 students annually.
 - Jazz Ensemble, Wind Ensemble, Engineering Club, Track and Field, Cross Country.

Volunteer Experience

- Gunn Jazz Program**

Fundraising Coordinator

 - Raised hundreds of dollars from local organizations to benefit annual Swing Dance efforts.
 - Facilitated planning, marketing, donations, and parent volunteers for the event.

Palo Alto, CA

September 2015 - present
- Hiruko Wellness**

Teaching Assistant and Support Staff Member

 - Taught 5-8 year old students taekwondo.
 - Aided instructors in running training sessions and black belt test events.

Los Altos, CA

October 2013 - present

Honors, Awards, & Press

AAR Research published in Stanford AIR Research Journal	June 2017
Speaker at PAUSD Techstravaganza	June 2017
2016 MIT Zero Robotics Challenge International Space Station Finalist	January 2017
Featured in Verde Magazine, Palo Alto High School	October 2016
2nd Degree Black Belt in Taekwondo, Hiruko Wellness	June 2016
2016 Icehouse Challenge Semi-finalist, IEEE + MIT Lincoln Laboratory	April 2016
3rd Place for Congressional App Challenge (CA-18)	February 2016
Featured in Philadelphia Magazine	September 2015
Best Cloud Based Mobile App at PennApps XII, UPenn & Goldman Sachs	September 2015
Top 10 at PennApps XII, UPenn	September 2015
Featured in San Jose Mercury News	July 2015
Apple WWDC 2015 Student Scholarship	May 2015
Honorable Mention, GunnHacks 1.0	March 2015
Top 10 at MHacks V, University of Michigan	January 2015
Stanford Model United Nations Best Delegation	October 2014
Research Award, Gunn Model UN Conference	October 2014
Finalist, Stanford Celestino Martinez Memorial Squash Championships	October 2014
JLS Class of 2014 Science Award	May 2014
JLS Class of 2014 Japanese Award	May 2014
2nd Place for Computers/Mathematics, Synopsys Science & Tech Championships	March 2014
Venmo API Award, High School Hacks	March 2014
2nd Place for Game Excellence, MakeGamesWithUs Demo Day	August 2013
Featured in Knowledge@Wharton	August 2013
Featured in San Francisco Chronicle	July 2013
Featured in Palo Alto Weekly	July 2013
1st Degree Black Belt in Taekwondo, Hiruko Wellness	June 2013
Winner, Stanford Celestino Martinez Memorial Squash Championships	February 2013
2nd Place for Strategy & Innovation, Sequoia High School FLL Competition	February 2013

Selected Open-Source Projects (github.com/gmittal)

- **Golfpilot** Python, TensorFlow
Computer vision software for self-driving golf cart. Summer 2017 - current
- **Joey Alexander: Real-time Computer Jazz Improvisation** Python
Machine learning, fast fourier transforms, and signal processing. Summer 2016 - current
- **Inzen** Python
A vector-space search engine that uses Latent Semantic Analysis. April 2017
- **Kenko** JavaScript, Objective-C
A smart nutritional assistant packaged in an iPhone app. 2015 - 2016

Skills

- **Numerical Analysis and Computer Science:** Machine Learning, Data Mining, Optimization, Calculus, Linear Algebra, Data Structures
- **Development:** Python, JavaScript, CSS, HTML, Swift, Objective-C, C, Scheme, Java, etc.
- **Technology:** Web frameworks, mobile applications, numerical libraries, databases, unix, git, emacs, tmux, etc.
- **Planning:** I've facilitated the TEDxGunnHighSchool conference (500+ attendees), the GunnHacks hackathon (200+ attendees), and Gunn's annual Swing Dance (100+ attendees) multiple times over the past few years. In addition, I've also run and taught several workshops and programming camps.
- **Music:** I've experimented with a lot of different musical styles; I play trombone in various jazz and classical ensembles and am a self-taught keyboard player.