

Gautam Mittal

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gautammittal.com

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Experience

- **TotalityHacks** Palo Alto, CA
Organizer & Developer November 2017 - present
 - Helping build a redesigned college hackathon in New York City.
- **Copilot Support Line** Palo Alto, CA
Executive Director October 2017 - present
 - An anonymous peer-to-peer mental health counseling service for teens. Under legal and policy review by Gunn HS Administration for launch.
- **Copilot Support Line** Palo Alto, CA
Technology Director June 2016 - October 2017
 - Architected and wrote entire codebase, managed staff, secured grants alongside Executive Director.
- **Edmodo** San Mateo, CA
Research Intern June 2017 - August 2017
 - Wrote machine learning code to recommend and inject user-generated content for AskMo, Edmodo's content-driven curiosity engine.
 - Compiled datasets for training deep neural network models, and prototyped pipelines to classify raw user content for experimental use under the supervision of Dr. 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 and facilitated curriculum implementation.
- **MakeGamesWithUs (YC W12)** Palo Alto, CA
Game Development Intern June 2013 - August 2013
 - Developed mobile games for Apple/iOS with MakeGamesWithUs (now MakeSchool) during their 2013 internship program.
 - "Blend: Fruity Insanity!", a fast-paced matching game.
 - Featured in news articles by San Francisco Chronicle, Knowledge@Wharton, Palo Alto Weekly, and MakeGamesWithUs.
- **MakeGamesWithUs (YC W12)** Palo Alto, CA
Game Development Intern June 2012 - August 2012
 - Developed games for Apple/iOS (using Kobold2D); Youngest intern ever at age 12.

Education

- **University of California, Berkeley** Berkeley, CA
BS, Electrical Engineering and Computer Science 2018 - 2022 (expected)
 - Regents' and Chancellor's Scholar (top 1% of incoming class)

Henry M. Gunn High School
General Education, GPA: 4.3/4.0

Palo Alto, CA
2014 - 2018

- 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, Class Council.

Volunteer Experience

- **Gunn Computer Science Department** Palo Alto, CA
Teaching Assistant *August 2017 - May 2018*
 - Teaching assistant for AP Computer Science, helping students with Sussman and Abelson's *Structure and Interpretation of Computer Programs* curriculum.
- **Gunn Jazz Program** Palo Alto, CA
Fundraising Coordinator *September 2015 - March 2018*
 - Raised hundreds of dollars from local organizations to benefit annual Swing Dance efforts.
 - Facilitated planning, marketing, donations, and parent volunteers for the event.
- **Hiruko Wellness** Los Altos, CA
Teaching Assistant and Support Staff Member *October 2013 - July 2014*
 - Taught 5-8 year old students taekwondo.
 - Aided instructors in running training sessions and black belt test events.

Selected Honors, Awards, & Press

US Marine Corps Sempre Fidelis Award for Musical Excellence	May 2018
Outstanding Student in Computer Science	May 2018
Louis Armstrong Jazz Award	May 2018
UC Berkeley Regents' and Chancellor's Scholar	March 2018
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

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:** C/Objective-C, Python, Swift, Lisp, Java, JavaScript, CSS3, HTML5.
- **Technology:** Numerical libraries (TensorFlow, NumPy, PyTorch), mobile applications (SpriteKit, PhoneGap), databases (Firebase, MongoDB), git.
- **Planning:** Organized 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:** Experimented with numerous musical styles; I play trombone in various jazz and classical ensembles at school and play keyboard for our band Shallow & Pedantic.