

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

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| 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.