# 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 Computer Science Department** — Palo Alto, CA
  *Teaching Assistant* — *August 2017 - present*
  - 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 - present*
  - 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 - present*
  - Taught 5-8 year old students taekwondo.
  - Aided instructors in running training sessions and black belt test events.

## Honors, Awards, & Press

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| 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.