# SUMEET BANSAL

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## EDUCATION

**University of California, San Diego**                                      La Jolla, CA
*BS, Mathematics-Computer Science*                        *September 2016 to June 2020*

Relevant Coursework:

| | | | |
|---|---|---|---|
| CSE 11 | Accelerated Introduction to Java | CSE 20 | Discrete Mathematics for Computer Science |
| CSE 12 | Data Structures and Object-Oriented Design | CSE 21 | Mathematics for Algorithms and Systems |
| CSE 15L | Software Tools and Techniques | CSE 30 | Computer Organization and Systems Programming |

**Archbishop Mitty High School**                                      San Jose, CA
*Graduated with Honors*                                      *August 2012 to May 2016*

GPA: 4.14. SAT: 2260. Awards: 2013 FIRST Robotics Competition CalGames System Design Award, 2015 FIRST Robotics Competition CalGames System Design Award.

## EXPERIENCE

**Actiance**                                      Redwood City, CA
*Engineering R&D and Product Management Intern*                        *June 2017 to September 2017*

- Led a team of three interns in developing an independent project (https://git.io/vd0Wi).
- Developed a diagnostic service that significantly shortened development and deployment cycles by ensuring parity across multiple product sites' server configurations.
- Automated processes for generating data stores of entire product sites' server configurations.
- Created a flexible MongoDB-based query engine that generates detailed statistical server analyses and later migrated the entire project to a fully functional SQL-based implementation.
- Integrated the query engine with a responsive web interface using AngularJS interacting with a Java servlet.
- Oversaw company-wide deployment and adoption across different teams, domestic and international (e.g. Engineering, Network Operations, QA).
- Presented well-received demos to many senior executives, including the CEO. Incorporated feedback and added requested functionality for specific use cases.
- Worked with Program Management to migrate programs to the BigPicture application for improved risk assessment, swim lane progress updates and milestone planning.

**Zscaler**                                      San Jose, CA
*Emerging Technologies Intern*                                      *June 2016 to August 2016*

- Developed a web visualization of global cyberthreats using live server data.
- Processed server data stream and systematically classified and prioritized various cyberthreats.
- Used the Google Maps API to project parsed threat data onto constantly-updating map.

## PROJECTS

**Last.fm Spelunker**                                      *https://git.io/vd0WS*

- Generates an exhaustive SQL database of the user's scrobbles and any related info (e.g. data for scrobbled songs or artists) through the last.fm API.
- Identifes historical patterns in listening habits and uses the D3.js data visualization library to graph scrobble statistics.

**Triton Scheduler**                                      *https://git.io/vd0WQ*

- A Chrome extension to easily populate Google Calendars with academic schedule for the quarter.
- Uses web scraping to parse and clean schedule data from the online WebReg class registration tool.
- Handles the user authentication and authorization process through the OAuth 2.0 protocol.
- Adds all academic events from the registration tool to Google Calendar via the Google Calendar API.

## EXTRACURRICULAR ACTIVITIES

**FRC Team 1351 – TKO**                                      San Jose, CA
*Mentor, former Project Lead*                                      *September 2016 to Present*

- Provided input on robot design, overall team strategy, and software design.
- Participated in design reviews for various robot subsystems and post-competition SWOT analysis.
- While a project lead, managed several team members, had complete autonomy in designing multiple vital subsystems, and had significant input on high-level design and strategy as a core member.

**Rajasthan Association of North America**                                      San Jose, CA
*Youth Director*                                      *February 2015 to February 2016*

- Served on the Executive Committee and helped organize community outreach and events.
- Developed an online system to easily add people to the organization's mailing list during the most-attended event of the year. Contributed code to the website for content and appearance.

## SKILLS & QUALIFICATIONS

**Skilled** – Java, SQL, MongoDB, HTML, CSS, Javascript, jQuery, LaTeX, Git
**Proficient** – Python, C, MATLAB, R, ARM Assembly