

# SUMEET BANSAL

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## EDUCATION

### University of California, San Diego

*BS, Mathematics-Computer Science*

La Jolla, CA

*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

*Graduated with Honors*

San Jose, CA

*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

*Engineering R&D and Product Management Intern*

Redwood City, CA

*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

*Emerging Technologies Intern*

San Jose, CA

*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.
- Identifies 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

*Mentor, former Project Lead*

San Jose, CA

*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

*Youth Director*

San Jose, CA

*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