# Sumeet Bansal

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#### EDUCATION

University of California, San Diego La Jolla, CA BS. Mathematics-Computer Science, Provost Honors December 2019 Relevant Coursework: CSE 20 CSE 21 Discrete Mathematics for Computer Science Mathematics for Algorithms and Systems CSE 100 CSE 30Computer Organization and Systems Programming Advanced Data Structures CSE 101 Design and Analysis of Algorithms CSE 105 Theory of Computability ECE 140 The Art of Product Engineering MATH 189 Exploratory Data Analysis and Inference

### 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 anomaly detection 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 June 2016 to August 2016

Emerging Technologies Intern

- 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

Webmaster

#### Last.fm Spelunker

https://git.io/vd0WS

- Generates an exhaustive SQL database of a user's listening history and related info through the last fm API.
- Identifies historical patterns in listening habits (e.g. seasonal preferences for artists or genres).
- Graphs listening statistics, long-term trends (through streamgraphs), and connections between related artists (through hierarchical edge bundles) using the D3.js data visualization library.

Triton Scheduler https://qit.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

#### Students for the Exploration and Development of Space (SEDS) Software Developer

San Diego, CA

September 2017 to Present

- Active member of the Colossus project, a NASA-funded static fire test stand having a net worth of \$330,000.
- Worked on the data acquisition system to automate the sequence of actions required to obtain reliable thrust readings, design a highly-redudant system with numerous background and safety checks, and develop data loggers and a responsive user interface.
- Developing an analytics platform designed to benchmark and study tested rocket engines.

January 2018 to Present

Responsible for the design and maintenance of the organization's website (sedsucsd.org).

San Jose, CA September 2012 to Present

- Mentor, former Project Lead 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.

## SKILLS & QUALIFICATIONS

FRC Team 1351 - TKO

Languages – Java, Python, C, SQL, JavaScript, C++, R, ARM Assembly, Shell Technologies/Frameworks - MongoDB, jQuery, Node.js, Express.js, D3.js, Django, Flask, Git