

# SUMEET BANSAL

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## EDUCATION

**University of California, San Diego**  
*BS, Computer Science; Minor in Mathematics.*

La Jolla, CA  
June 2020

Provost Honors. Relevant Coursework:

CSE 100	Advanced Data Structures	CSE 101	Design and Analysis of Algorithms
CSE 158	Recommender Systems and Web Mining	CSE 170	Interaction Design
ECE 140	The Art of Product Engineering	MATH 189	Exploratory Data Analysis and Inference

## EXPERIENCE

**IBM Watson Health**

Milwaukee, WI

*Software Developer Intern*

June 2018 to September 2018

- Reworked continuous integration system to include automated remote unit testing and brought test harness up to federal standards.
- Developed a data integrity project to ensure patient data isn't being mutated by the program.
- Developed a data transformation tool for patient data to fix a critical compatibility issue.
- Designed a proof-of-concept blockchain with the premise of smart contracts for pharmaceutical prescriptions.

**Actiance**

Redwood City, CA

*Engineering R&D 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.
- 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.
- Presented well-received demos to many senior executives, including the CEO.

**Zscaler**

San Jose, CA

*Emerging Technologies Intern*

June 2015 to August 2015

- 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 a constantly-updating map.

## PROJECTS

**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.

## EXTRACURRICULAR ACTIVITIES

**Students for the Exploration and Development of Space (SEDS)**

San Diego, CA

*Webmaster*

January 2018 to Present

- Responsible for the design and maintenance of the organization's website ([sedsucsd.org](http://sedsucsd.org)) and internal content management service.
- Integrating a conference registration and management system with the site to manage a conference with an expected attendance of several hundred.

*Software Developer*

September 2017 to March 2018

- 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-redundant system with numerous background and safety checks, and develop data loggers, a dedicated analytics platform, and a responsive user interface.

**Triton Software Engineering**

La Jolla, CA

*President*

May 2018 to Present

- Partner with non-profits to engineer solutions for unique organizational needs and expand reach and impact.
- Manage day-to-day administration and oversee the specification, development, and execution of each project.

*Project Manager*

January 2018 to June 2018

- Led a team of student developers in implementing projects for social good; followed Agile methodology.
- Centralized and digitized medical records for a pop-up health clinic program in areas with limited resources (e.g. Tijuana).
- Created a market evaluation tool for community stakeholders and ethnic grocers to improve the urban food environment in San Diego.

## SKILLS & QUALIFICATIONS

**Languages** – Java, Python, C, SQL, JavaScript, C++, R, ARM Assembly, Shell

**Technologies/Frameworks** – Jenkins, MongoDB, Express.js, Node.js, jQuery, D3.js, Django, Flask, Git