

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 158 Recommender Systems and Web Mining
ECE 140 The Art of Product Engineering

CSE 101 Design and Analysis of Algorithms
CSE 170 Interaction Design
MATH 189 Exploratory Data Analysis and Inference

EXPERIENCE

IBM Watson Health
Software Developer Intern

Hartland, WI
June 2018 to September 2018

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 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

Emerging Technologies Intern

San Jose, CA
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.

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

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-redundant system with numerous background and safety checks, and develop data loggers, a dedicated analytics platform, and a responsive user interface.
- Set up a web server and local website to enable real-time monitoring of the Colossus system.

Webmaster

January 2018 to Present

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

Triton Software Engineering

Project Manager

La Jolla, CA
April 2018 to Present

- Led a team of software developers in developing a series of technical projects for social good.
- Created a structured lesson plan to teach team members web development with MEAN stack.
- Held weekly standups and meetings to discuss tasks; followed Agile methodology.

SKILLS & QUALIFICATIONS

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

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