

SUMEET BANSAL

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EDUCATION

University of California, San Diego

B.S., 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

CSE 170

MATH 189

Design and Analysis of Algorithms

Interaction Design

Exploratory Data Analysis and Inference

EXPERIENCE

Palantir

Software Engineer Intern

New York City, NY

June 2019 to September 2019

- Foundry - Analytics Group - Functions on Objects.

IBM Watson Health

Software Developer Intern

Milwaukee, WI

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

Engineering R&D 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 and shipped a diagnostic service that's currently used in production to significantly shorten 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.
- Extended the tool into a REST API using Spring Boot and developed an online dashboard using Angular.
- Presented well-received demos to many senior executives, including the CEO.

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.
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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.
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EXTRACURRICULAR ACTIVITIES

Triton Software Engineering

President

San Diego, CA

May 2018 to Present

- Managed logistics, rebranded and defined the vision, created a growth strategy for an interdisciplinary 40-person student org that designs and develops pro-bono technology resources (e.g. web and mobile applications) for non-profits.
- Established partnerships with local non-profits, social enterprise venture firms, and industry professionals.
- Pushed the adoption of industry-standard development practices (e.g. proper Git workflows with code reviews, CICD/tooling, style guides) and a more multidisciplinary development approach with a greater emphasis on human-centered design.
- Established a scalable tech infrastructure using AWS and a system for regular management and technical check-ins with individual teams.
- Designed specifications and architectures for multiple projects.

Project Manager

January 2018 to June 2018

- Led a team of student developers in implementing projects for social good; followed Agile methodology.
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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