

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.
- 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 Explorer

- Generates an exhaustive database of the user's scrobbles and any related info (e.g. data for scrobbled songs or artists) through the last.fm API.
- Uses the D3.js data visualization library to graph scrobble statistics and identify historical patterns in listening habits.

Triton Scheduler

- Developed 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

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.

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.

SKILLS & QUALIFICATIONS

Skilled – Java, SQL, MongoDB, HTML, CSS, Javascript, jQuery, LaTeX, Git

Proficient – Python, C, MATLAB, R, ARM Assembly