

Vansh C Singh

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EDUCATION

M.S. in Computer Science - Human-Computer Interaction, UCSD

December 2020

B.S. in Computer Science, UCSD, 3.92 GPA

June 2019

- CSE Tutor, Regents Scholar, Caledonian Society, Tau Beta Pi, Toastmasters

WORK



Member of Technical Staff Intern

Rubrik, *Ransomware Detection*

June 2019 - September 2019



Software Engineering Intern

Amazon, *Alexa AI-NLU Data Preparation Team*

September 2018 - December 2018

- Investigated, researched, and iterated upon a data viz/exploration tool design directly with customers
- Navigated complex legal landscape of visualizing RED Alexa utterance data
- Engineered a framework that compiles NLU datasets into exploration facility with visualization overlay
- Piloted programs with multiple teams; garnered positive feedback from customers
- Technical Product Management, User Research, Human-Centered Design, Python, AWS, SQL



Software Engineering Intern

Microsoft, *Windows Shell Data Science Team*

June 2018 - September 2018

- Conceptualized, refined, concluded upon product design through customer interactions and EDA
- Engineered and deployed end-to-end noise mitigation platform on text categorization NLP solution
 - Pioneered several algorithms that cut noise by 18-40%
- Following successful pilot program with shell department, merged for future release of product
- Technical Product Management, Platform Architecture, System Design, NLP, Python



Product Designer

UC San Diego | School of Medicine | Center for Community Health

January 2018 - March 2018

- Contracted by the CCH to lead a team of 10 individuals to help address a food desert in City Heights, San Diego amongst the Somali-American community.
- Employed Human-Centered Design process to understand, empathize, and build a sustainable solution for maintaining fresh foods in the community's central Halal Market, that they are using to this day
- Human-Centered Design, Prototyping, Strong written and verbal communication



Software Engineering Intern

Classy, *Engagement Team*

June 2017 - September 2017

- Designed a language, SimpleSearch, and compiler that compiles into Elasticsearch Query DSL
 - SimpleSearch queries for simple tasks were smaller by as much as 80%;
 - Designed for a security goal to limit the types of queries 3rd party devs can make on our clusters
- Contributed React and Angular components to various front-end projects
- PL, CFGs, Computer Security, compilers, JavaScript, ES7, REST, Node, Express, React



Computer Science Tutor

UCSD Computer Science & Engineering Dept.

June 2016 - June 2018

- CSE 12/15L: Create Linked-Lists, Hashmaps, self-balancing trees, on-disk trees, etc. in C, C++, and Java
- CSE 110: Conducted labs on Firebase, React, Node, Android, Travis, etc.
- CSE 105: Chomsky's hierarchy, Automata, Turing Machines, Complexity theory