

Vansh C Singh

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EDUCATION

M.S. in Computer Science, UCSD

January 2021

- VP Product Space, Specializing in Machine Learning and Systems

B.S. in Computer Science, UCSD, 3.93 GPA

June 2019

- Magna Cum Laude, Regents Scholar, Caledonian Society, Tau Beta Pi

WORK



Algorithms TA

UCSD Computer Science & Engineering Dept.

September 2019 - Present

- CSE 101 TA for Miles Jones
- Teach discussion sections on recursion, graph search, greedy, backtracking, dynamic programming
- Make and grade homework assignments; Supervise student tutors

CSE Tutor

June 2016 - June 2018

- CSE 12: Mentored students in creating elementary data structures in C, C++, and Java
- CSE 105: Held office hours on Complexity, Automata, Turing Machines, and other cs theory tenets



Member of Technical Staff Intern

Rubrik, *Lambda*

June 2019 - September 2019

- End-to-end designing, building, and delivering backend for SAAS Data Governance product
- High-demand feature expected to make [Sonar](#) contribute 50% of SAAS revenue for Rubrik in FS 2020
- Backend Engineering, Parallelization, Microservice-Architecture, gRPC, Golang, Kubernetes



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
- Python, AWS, System Design, Technical Product Management, Product Design



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 [NLP solution](#) used by 20+ teams at msft
 - Pioneered several algorithms that cut redundant categorizations by 18-40%
- Following successful pilot program with shell department, merged for future release of product
- Python, Exploratory Data Analytics, Grammars, NLP, System Design



Software Engineering Intern

Classy, *Engagement Team*

June 2017 - September 2017

- Designed and created a restricted superset of Elasticsearch Query DSL that compiles into raw DSL
 - Usecase was for ensuring that queries made on our exposed Elasticsearch clusters are secure and don't contribute to noisy neighbor problem
 - Queries were more secure and for simple tasks were smaller by as much as 80%;
- Added high-priority functionality to internal customer-service tool using Angular
- Fullstack engineering, Compilers, Grammars, JavaScript, Node, Express, React, Angular