Vansh C Singh

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EDUCATION

M.S. in Computer Science, *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==, Python, AWS, SQL, User Research, User Design, End-to-End

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==, Python, Platform Architecture, Natural Language Processing

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%;
  - Integrated with REST endpoint where 3rd party queries contain SimpleSearch payload
  - Allows for controlled and accessible 3rd party access to company's ElasticSearch clusters
- Contributed React components to internal component library
- Added high-priority functionality to internal customer-service tool using Angular
- PL, CFGs, compilers, JavaScript, ES7, REST, Node, Express, React

Computer Science Tutor
UCSD Computer Science & Engineering Dept.
June 2016 - June 2018
- CSE 12/15L: Mentored students on data structures and polymorphic generic containers in C, C++, and Java
- CSE 110: Conducted labs on software technologies such as Firebase, React, Node, Android, Travis, etc.
- CSE 105: Held office hours on Chomsky's hierarchy, Automata, Turing Machines, and other cs theory tenets

Financial Analyst Intern
Blockforce Capital
October 2016 - February 2017
- Automated creation of a predictive market-strength indicator that forecasts long-term market downturns
- Java, Python, Bloomberg API, HighCharts