

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

- Regents Scholar, Provost Honors, Caledonian Society, Tau Beta Pi, Toastmasters
- Interests: Distributed Systems, Infrastructure, Platforms, Algorithms

WORK



Software Engineering Intern

Amazon, *Alexa Engine Language Technologies team*

September 2018 - December 2018

- Distributed Systems, Highly Scalable Cloud-based Infrastructure



Software Engineering Intern

Microsoft, *Windows Shell Data Science Team*

June 2018 - September 2018

- Deployed end-to-end noise mitigation platform on text categorization NLP solution
- Pioneered several algorithms that cut noise by 18-40%
- Researched product needs through customer interactions and exploratory data analysis
- Python, Exploratory Data Analytics, 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
 - Compressed DSL queries by as much as 80%;
 - Integrated with REST endpoint where 3rd party queries will 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, Angular



Computer Science Tutor

UCSD Computer Science & Engineering Dept.

June 2016 - June 2018

- CSE 12: Mentored students on data structures and polymorphic generic containers in C, C++, and Java
- CSE 15L: Taught students elementary software tools such as git, vim, unit testing, Make, etc.
- 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

Reality Shares, Inc.

October 2016 - February 2017

- Created and deployed an application that automates the calculation of a predictive market-strength indicator that forecasts long-term market downturns
- Saved 30 man-hours of work per month in a small company of just ~10 full-time employees
- Java, Python, Bloomberg API, HighCharts