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: <u>Distributed Systems, Infrastructure, Platforms, Algorithms</u>

WORK

Software Engineering Intern
Amazon, *Alexa Engine Language Technologies team*
September 2018 - December 2018

  - <u>Distributed Systems, Highly Scalable Cloud-based Infrastructure</u>

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
  - <u>Python, Exploratory Data Analytics, Platform Architecture, Natural Language Processing</u>

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 <u>by as much as 80%;</u>
    - 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
  - <u>PL, CFGs, compilers, JavaScript, ES7, REST, Node, Express, React, Angular</u>

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
  - <u>Java, Python, Bloomberg API, HighCharts</u>