

# Manish Rao

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## Work Experience

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**Software Development Engineer Intern** Palo Alto  
Amazon | Ads Inventory Forecasting Services June 2019 Sept. 2019

- Developed a granular, real-time keyword suggestion service for a product used by advertisers to better target keywords for their targeting expressions
- Productionized process that parsed, sampled and moved terabytes of raw logs into Elasticsearch daily
- Added additional statistical features to the product for more confident targeting
- Processed and analyzed data to edit features on the platform
- Integrated back-end services with front-end components and completed testing
- Demoed to the Amazon Ads Org of around 300 people

**Software Development Engineer Intern** Hyderabad, India  
Centerpoint | Project Management Systems June 2018 Sept. 2018

- Worked on the Centerpoint startup PMS team
- Developed components of a web application for an automated online hotel reservation system
- Contributed to team's API to build services layer using Spring
- Designed and implemented frontend components using React

**Software Development & IT Assistant** Los Angeles  
UCLA | Institute of Transportation Studies March 2018 Present

- Maintaining website using HTML/JSS/CS using frameworks like Bootstrap/Wordpress
- Utilizing SSH/SQL/FTP to manage databases/servers
- Writing scripts using PHP and Python to automate backups and supplement workplace applications

## Projects

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**B-Haul** Sept. 2019 Present

- Developing a web application that allows users around UCLA to better find and sell second-hand furniture and provide more information to make moving these easier
- Allows for a geotagged map platform and a unique bundling option to improve the selling/buying process
- Utilizing MongoDB, React, JS, Python

**Sudoku Solver** March 2019 Present

- Created an application that would solve Sudoku puzzles in C++
- Developing a web app that would integrate Optical Character Recognition that would allow for picture recognition

## Education

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**UCLA**  
**B.S. COMPUTER SCIENCE**  
Expected June 2020

## Activities

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**Den Operations Club**  
**Vice Presidential Associate**  
Sept. 2016 Present  
Part of the group that runs 'The Den', UCLA's student section at athletic events. Help lead all operations involving student gameday experience and the student section's marketing and branding. Help with special promotions for ticket sales, giveaways at games and on social media.

**Project Rishi at UCLA**  
**Committee Director**  
Sept. 2016 June 2018  
Part of a group that remotely provides necessities to a village in rural India. Managed the environmental sustainability committee that developed and designed solutions to environmental issues

## Skills and Coursework

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C++, Java, Python, JavaScript  
React, HTML, CSS, JQuery  
Git, Bash Scripting, Elasticsearch

**Coursework:** Software Construction, Data Structures and Algorithms, Algorithms and Complexity, Operating Systems, Computer Architecture, Computer Networks, Logic Design of Digital Systems, Computer Networks, Data Mining, Programming Languages, Finite State Automata, Artificial Intelligence, Computer Vision, Discrete Structures, Linear Algebra