

# RISHAV ROUT

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## EDUCATION

**University of Illinois at Urbana-Champaign** May 2021  
**Bachelor of Science, Computer Science** GPA: 3.72  
**Relevant Coursework:** Data Structures, Algorithms, Systems Programming, Computer Vision, Database Systems, Bioinformatics, Computer Security, Languages and Compilers, Data Visualization, Applied Machine Learning  
**Computer Languages and Tools:** Python, Java, C++, C, Javascript, Typescript, SQL, MongoDB, Neo4J, Angular, NodeJS, OOP, HTML, Git, Agile, Selenium, Qt, OpenCV, D3, Tableau

## EXPERIENCE

**Software Engineering Intern** Remote  
**Waymo (Alphabet Inc.)** May 2021-August 2021

- Refined UI/UX of a web application that operators use remotely help autonomous vehicles
- Utilized Typescript and Angular to improve workflows, quality of life, and overall efficiency for operators

**COVID-19 Narrative Visualization** rroutr2.github.io/narrative-viz  
**A Look into the Relationship Between Race and COVID-19** July 2020-August 2020

- Created an interactive visualization, allowing the user to explore on their own
- Utilized D3, Javascript, HTML/CSS to show racial disparities within Illinois

**Autonomous Vehicle Perception** Urbana, IL  
**CS 445 Team Project** September 2019-December 2019

- Controlled an RC car with lane, human, object, and sign detection, utilizing OpenCV, DarkNet YoloV3, Python3, and NumPy
- Calculated the optimal movement for the car given these detections in a controlled environment

**Foresight 2020** Urbana, IL  
**CS 411 Final Project** October 2019-December 2019

- Developed a web application using NodeJS that gives the best recommendation for who to vote for in the upcoming election based on stance various political issues
- Implemented a MySQL and MongoDB database to store user and candidate information, survey results, as well as posts on Reddit related to the recommended candidates using Reddit's API

**Software Engineering Intern** Westlake, TX  
**Fidelity Investments** May 2019-Aug 2019

- Redesigned UI for web application from start to finish, built using Angular, Typescript, and NodeJS
- Connected tabular display to backend with service calls, complete with obtaining, editing, and saving
- Application utilized for large scale testing across various configurations and environments

May 2018-Aug 2018

- Member of SHARES application team in Corporate Technology Group
- Designed automated regression tests using Selenium, to be run before each deployment

## LEADERSHIP

**Illinois Men's Club Ultimate Frisbee Team** Urbana, IL  
**President** May 2019-May 2021

- In charge of coordination between team, captains, and school administration
- Communicate with USA Ultimate for rostering and registration to ensure eligibility and standing

**The Boy Scouts of America** Coppell, TX  
**Eagle Scout and Assistant Senior Patrol Leader** May 2015-August 2016

- Second-in-command of local Boy Scout troop
- Coordinated dozens of campouts, fundraisers, service projects, and volunteering events