# PRATIK CHAUDHARI

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## EDUCATION

**University of Illinois at Urbana-Champaign** — Urbana-Champaign, IL
***Bachelor of Science in Statistics and CS (Deans list), CS GPA: 3.80*** — *Expected 2020*

## PROFESSIONAL EXPERIENCE

**Department of Kinesiology at University of Illinois** — Urbana-Champaign, IL
***Research programmer*** — *July 2018 - present*

- Developed a novel algorithm that analyses the movements of limbs based on waveforms.
- Engineered pipelines that formed the core basis of sensor data analysis by writing python scripts.
- Modeled schemas for a SQLite database that stored data for every human trial.

**CS@Illinois** — Urbana-Champaign, IL
***TA and course developer*** — *January 2018 - present*

- Collaborated with a graduate TA to present lectures in lab sections of 30 students for the intro to CS course at my university, where I taught basic data structures and sorting algorithms in java.
- Currently developing automated grading tests and github scripts for the computer architecture class.
- Held multiple office hours every week for both these classes to help students with their homework and machine problems.

## PROJECT HIGHLIGHTS

**Karrot.world - a food-sharing platform in Europe:** — *Summer 2018*
*Open source*

- Integrated the ability to assign a picture to each food-sharing group to improve the user experience of 4000 monthly users.
- Wrote vue.js tests to improve the coverage for this feature from 0% to 70%.

**Prairielearn - an online system for problem-driven learning:** — *Spring 2018*
*Open source*

- Developed a student gradebook system from scratch that has 1200-1400 monthly users.
- Implemented this feature by using SQL queries to get the grades from a database, and then returning them to the frontend using handlebars and express.
- Wrote unit tests using mocha to improve coverage from 0% to 80% for this feature.

**The Office project:** — *Summer 2018*
*Personal project*

- Architected and developed a light node application from scratch that randomly generates quotes of certain characters from the US TV show “The Office”.
- Implemented the back-end using node.js, express and mongoDB, and the front end using handlebars and bootstrap.
- Shared this website online, where it received comments such as “This is fantastic”,

## PROGRAMMING LANGUAGES AND TECHNOLOGIES

- **General:** Java, C++, javascript
- **Data processing:** Python
- **Web-based technologies:** node.js, bootstrap, vue.js, docker
- **Low level languages:** Verilog HDL, MIPS