

# Prakshal Jain

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## EDUCATION

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### University at Buffalo — Bachelors in Computer Science, May 2023

- **GPA:** 3.897 (Dean's List Academic Excellence Award)
- **Honors College**
- **Vice President and Scholar, Tau Beta Pi** (New York Nu Chapter)

## SKILLS

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- **Programming Languages:** (expert: ) Python, Javascript, SCALA | (proficient:), C, C++, jQuery, PHP, Bash, MIPS
- **Libraries and frameworks:** ReactJs, Express.js, NodeJs, React Native, Vue.js, MongoDB, Tensorflow, OpenCV, Django, HTML, CSS/SCSS, Git (CI/CD), Jekyll, PsychoPy, jsPsych, MySQL, Linux, NLTK, SpaCy
- **Interpersonal Skills:** Leadership, Teamwork and Management, Problem Solving, and Critical thinking

## EXPERIENCE

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### Research Assistant | University at Buffalo, Buffalo, NY — Sep 2021 to Present

- Using Machine Learning libraries and tools like NLTK, spaCy, and Tensorflow to predict and analyze the trend of writing about different genders, and performing emotional analysis in 70,000+ obituaries from 1990 till 2021.

### Full Stack Developer Intern | MemoryFox, Buffalo, NY — May 2021 to Aug 2021

- Creating reusable components and implementing UI designs with accessibility features using *ReactJS*.
- Incorporated *REST APIs* in *PHP* backend, and *AJAX* calls in the frontend for the company's platform.
- Based on web-analytics, user base increased by 32.5%, and platform's avg. user time-spent increased by 44%.

### Teaching Assistant (Data Structures) | University at Buffalo, Buffalo, NY — Aug 2021 to Present

- Conducting recitations, office hours, checking homework and tests, and writing test scripts for checking the programming assignments for a total class size of 100 students.

### Software Developer | University at Buffalo, Buffalo, NY — Feb 2021 to Present

- Programmed 6 perceptual experiments for the Dept. of Communicative Disorders & Sciences using JavaScript (MERN stack) and Python (GUI development using Tkinter, PsychoPy & multi-channel sound analysis using and Sounddevice and pyAudioAnalysis).
- The new experiment setup helped to reduce manual effort by approx. 72%, and helped increase the participation rate from 25 participants to 220 participants per week.

### Frontend Engineer | University at Buffalo, Buffalo, NY — Mar 2020 to May 2021

- Wireframing, prototyping, documenting, and developing the website, accessibility resources, and multiple in-site portals for the [Computing for Social Good organization](#) from the ground on. The new web setup reduced publication process time by approx. 65%.
- Bash Scripting to automate code deployment process to the server, and developing tools to analyze, manage, and store research data for machine learning model to reduce bias from foster care data, which will help in providing services to more than 20,000 youths.

### Full Stack Developer | University at Buffalo, Buffalo, NY

- **OneDataShare** (Aug 2020 to Oct 2020): Developing the website's frontend components and incorporating RESTful API to fetch and display user information securely on an endpoint credential page.
- **UB Hacking** (Jun 2020 to Aug 2020): Redesigning the frontend and making changes in the backend functionality to adopt for virtual hackathons, implementing third party services like Discord and Twitch, and setting up MySQL to support 650+ students in real time.

## PROJECTS

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- **Zeal:** Singlehandedly created a teammate search tool made with ReactJS and Django for personal/academic projects, events, and startups. Currently used by 100+ students at University at Buffalo and Blackstone Launchpad for their group events.
- **Reactive:** An open-source browser based video editing platform. Reached 834 downloads in a single day.
- **CodeAura:** Initiator & team lead of 15 members, building an immersive collaboration platform for developers and podcast creators.