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## EDUCATION

University of Rochester

Rochester, New York, USA

Major: Computer Science and Business

Anticipated May 2022

- Dean's List: All semesters
- Next Genius Scholar: Awarded full tuition scholarship
- Computer Science Undergraduate Council: E-Board member

GPA: 3.75/4.00

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## SKILLS

- Proficient in Java, Swift, Node.js, React.js, ES6, CSS3, HTML5, MongoDB, SQL, Git, Python, C++, C, R
- IRB Certified to conduct experiments involving human participants

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## WORK AND LEADERSHIP EXPERIENCE

**Roc-HCI Lab - Research Assistant**

Spring 2020- Present

- Re-engineering the existing static website into a web application using **React.js** and other **MERN** stack tools, which has already reduced latency of loading the site by **30%** and boosted site traffic by **300%** as measured by Google Analytics.
- Developed a scalable web application architecture for the diagnosis of Parkinson's by video analysis using an ML model.
- Instilled necessary UX redesign, maintained and updated GCP servers and MTurk hits, integrated **Git** version control.
- Utilized multimodal **Python** scripts and **OpenFace** Libraries for head pose estimation and facial action unit recognition.

**University of Rochester - CETL Academic Tutor**

Fall 2019-Present

- Summarized difficult concepts, in **15+** courses (Data Structures, Calculus, HCI, etc.) and helped **over 100** students.
- Provided students with additional examples, resolved assignment doubts and practice problems for exam preparation.

**University of Rochester - Teaching Assistant**

Fall 2019-Spring 2020

- Executed weekly workshops for Data Structures and Algorithms and helped **80 +** students gain a deeper understanding of concepts like Big-O complexity and creating data structures from scratch.

**True Code Masters- Software Testing Intern**

Summer 2019

- Interacted with clients, performed requirement gathering for **~20** projects including web and app development.
- Contributed in the SDLC as a unit tester, dry ran the projects and wrote test cases speeding up the process by crucial **10%**.

**Next Genius OTG Camp- Peer Mentor**

Summer 2019

- Mentored a batch of **50+** high school seniors to polish college essays and guided them through the application process.

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## PROJECTS

**PARK Test-****MERN Stack, ReactStrap, Google Cloud Platform**

- An online framework allowing one to perform neurological tests and diagnose Parkinson's without expensive clinic visits.

**Checkers-****Java**

- Artificial Intelligence Based Checkers which calculates the best possible moves using heuristic minimax and Alpha-Beta pruning, capable of making instant decisions (in less than 0.05 seconds) by employing effective traversals techniques.

**Simulation of Google Maps-****Java, Java Swing**

- Java program which efficiently uses the Dijkstra's shortest path algorithm to find the best possible way to get from one node to another in a map plotted using the real-world co-ordinates of any location.

**Blaze Chat-****Swift, Firebase**

- A quick, personal and secure, chatting application for me and my best friends to always stay connected.

**Twitter Sentiment Analyst-****Swift, CreateML, Twitter API**

- Natural language processing app that fetches live tweets to predict the public emotions about any twitter handle/hashtag.

**Todoey-****Swift, Realm, Cocoapods**

- iOS based task manager with different color-coded subfolders to help a nursing friend manage all her patient medications.

**AR Birthday Album-****Swift, ARKit**

- A birthday gift for best friend – a personalized photo album that comes to life when placed under the iPhone camera.

**Keeper App-****React.js, JSX(Babel)**

- A simple on-the-go note-taking web-app which mimics the Google Keep app to help me stay organized.

**TinDog-****HTML, CSS, Bootstrap4**

- A static dating webpage inspired from tinder but with a twist – it's for dogs. Helped me practice my designing skills.

**Daily Help Organization-****Wix ADI, Wix editor, MySQL**

- An end-to-end online platform to provide households with basic household assistance across an entire state of India.
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