

Rohan Prasad

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Education

The University of Illinois at Urbana-Champaign

Champaign, IL

B.S. IN COMPUTER ENGINEERING , GPA: 3.71/4.0

Class of 2023

- Electrical and Computer Engineering James Scholar Honors

Coursework

Applied Parallel Programming (CS 483), Data Structures (CS 225), Discrete Structures (CS 173), Computer Systems and Programming (ECE 220), Analog Signal Processing (ECE 210), Introduction to Computing (ECE 120), Introduction to Electronics (ECE 110)

Skills

Languages

Python, Javascript, Typescript, Java, C/C++

Frameworks

Node.js, React.js, Jekyll

Tools

Git, Postman, MongoDB

Libraries

ROS, Puppeteer, OpenCV

Experience

Woven Money (Early-Stage Fintech Startup)

Seattle, WA

SOFTWARE ENGINEERING INTERN

May. 2020 - Aug. 2020

- Developed financial technology SaaS product (MVP) on an early-stage startup team, used by hundreds of customers in the alpha release.
- Wrote automation scripts to facilitate financial actions on a user's behalf, such as requesting a balance transfer or aggregating credit card information using Node.js, Typescript, and relevant libraries.
- Developed software to enable publisher-subscriber model in back-end to enable background job facilitation in mobile-web and react native application.
- Developed an algorithm to evaluate balance transfers between banks based on a user's finances.

Intelligent Motion Laboratory

Urbana, IL

UNDERGRADUATE RESEARCH ASSISTANT

Oct. 2019 - Present

- Developing TRINA 2.0, the teleoperated robotic intelligent nursing assistant, designing and implementing a central controller and API to actuate components of the robot while handling various controller loops and effective cross-platform communication.
- Developing models to generate grasp angles from millions of point cloud mesh and fused point cloud images in order to facilitate a computer vision pipeline.
- Implementing ROS, Python, and C algorithms for motion planning and control with Fetch robotics freight machines and Universal Robotics robotic arms.
- Guided under Professor Kris Hauser.

Juni Learning

Remote

COMPUTER SCIENCE INSTRUCTOR

Mar. 2019 - Present

- Instructed middle/high-school students in multiple levels of Java (fundamentals to APCS) and Python (fundamentals to advanced) during recurring weekly classes for over 250 hours.

Projects

Spotify Jukebox

- Built a web application using React.js, Node.js, Express, and Puppeteer to enable song queuing to a central player from any device through the Spotify API.
- Automated Spotify's token authentication using headless browser

MODIS Cloud Detection

Ranked 1/17

NCSA NVIDIA AI HACKTATHON III

Mar 2020

- Explored the usage of machine learning methods on identifying instances of clouds (pixel level) on Satellite images from the MODIS satellite cluster.

Activities

FIRST Robotics Competition Team #5422

Devens, MA

SOFTWARE SUB-TEAM CAPTAIN

Sep. 2015 - May. 2019

- Led a team of fifty members from various sub-teams to multiple district and regional championships.
- Qualified and competed in FIRST World Championship in St. Louis, MO and Detroit, MI (2016, 2017, 2018 & 2019)
- World Championship Finalists (2018)