Rohan Prasad

rprasad3@illinois.edu

EDUCATION

University of Illinois at Urbana-Champaign **Class of 2023**
    Major: Computer Engineering (James Scholar Honors) **3.71/4.0**
Westford Academy **Class of 2019**
3.8/4.00

COURSEWORK
    Introduction to Computing (ECE120), Introduction to Computer Science(CS125), Introduction to Electronics(ECE110), Computer Systems and Programming(ECE220), Discrete Structures(CS173), Data Structures (CS225), Applied Parallel Programming (CS483)

Experience

Woven Money, *Seattle, WA*
Software Engineering Intern *May 2020-Aug 2020*
- Developed financial technology minimum viable product 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-Champaign, IL*
Undergraduate Researcher *October 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

Museum of Science*, Boston, MA*
Program Assistant- Informal Engineering and Computer Science *June 2019-Sep 2019*
- Managed the Tech Studio space alongside other Program Assistants for thousands of daily visitors.
- Taught computer science concepts to approximately one thousand daily museum visitors.

Activities

FIRST Robotics Competition Team #5422, *Devens, MA* *Sep 2015-May 2019*
Electrical and Software technical teams
- Software sub-team captain
- 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)

Projects

MODIS Cloud Detection *March 2019*
- Explored the usage of machine learning methods on identifying instances of clouds (pixel level) on Satellite images from the MODIS satellite cluster.
- **Won best model at NCSA Nvidia AI Hackathon III**