

NALIN MAHAJAN

UT Masters CS Student

@ nalinmahajan@outlook.com

📞 512-905-7308

🌐 nalinmahajan.net

in <https://www.linkedin.com/in/nalin-mahajan-b7b449183/>

EXPERIENCE

Summer R&D Intern

Trend Micro

📅 Jun-Aug 2021

📍 Austin, TX

- Spearheaded a PoC that shifted cloud services to a local on premise environment; utilizing Java EE, SpringBoot, Gradle, Tomcat/Apache Servers, and AWS. Accelerated plugin development on company services through the use of Swagger Templates and JS.

Peer Mentor

UT

📅 2020-2021

📍 Austin, TX

- Encouraged and supported Freshmen College students to enter research as a part of the FRI program by providing guidance as a peer mentor.
- Engaged in ground breaking research as an undergraduate student conducted in the BWI Lab with a focus on the topic of HRI (Human-Robot Interaction).

Freshman Research Initiative

UT Tides

📅 2019-2021

📍 Austin, TX

- Conducted research in the autonomous robotic stream. Learned to use ROS, C++, openCV and some ML tools such as tensorflow.

Westwood Warrior Robotics

Westwood High School

📅 Sept. 2015 – May 2019

📍 Austin, TX

- Engaged in networking with various local businesses and corporations in order to secure sponsors as well as grant money to run the team.
- Lead in programming in charge of designing and implementing programs to be run on the robots through a variety of software layers such as RobotC and Java frameworks. Projects were made by a team which utilized GIT as our preferred method of version control.

Volunteer Restore

Habitat For Humanity

📅 2018

📍 Austin, TX

- Volunteered in the Travis County ReStore center. This is a center that reuses used or donated goods such as decorations and building materials. The goal is to provide low cost and sustainable home maintenance for low income individuals.

EDUCATION

Integrated Masters CS and BS Math

UT Austin

📅 2019-2023

📍 Austin, TX

- GPA: 4.0
- CS GPA: 4.0

High School/IB Diploma

Westwood High School

📅 2019

📍 Austin, TX

- GPA: 5.6/6.0

PROJECTS

PoC running cloud services in Tomcat

- In order to reduce overhead I developed a PoC system for deploying cloud services to a Tomcat Server allowing all services to run containerized in a single JVM.

NBAToday Website

- Created a website in a Team that supported stat tracking for the NBA. Utilizing react, Flask and postgresql.

Anticipatory Motion

- Created a VR environment that utilizes eye tracking and body tracking to identify cues for human pathing.

Natural Language Parser in C++

- An application that translates natural language utterances into lambda calculus expressions written in C++.

Point Cloud Stream Compressor

- A tool written in C++ integrated with ROS and OpenCV that compresses real time point cloud data.

CNN Fruit Recognition

- A CNN based classifier built in both Tensorflow and Pytorch that was trained on the fruit 360 database.

FIRST Robotics Competition 2015-2019

- An annual Global Robotics Competition. Required writing operating code in Python, Java and C.

TECHNICAL SKILLS

- Versed in Python, C++, C, Java.
- Web Dev: JS, HTML, CSS, Flask, PostgreSQL
- Experience with Gradle, Java EE, SpringBoot

SOFTWARE SKILLS

- Familiar with Linux OS (Ubuntu, Fedora, CentOS)
- Microsoft Office
- Data tools: numpy, Tensorflow, OpenCV, PyTorch
- GIT and other forms of version control