

SALIL NADKARNI

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1414 Little, 1503 Washington Heights, Ann Arbor, MI (current)

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48941 Freestone Dr, Northville, MI (permanent)

EDUCATION

University of Michigan, Ann Arbor, MI

Sept 2019 - Present

Pursuing Bachelors in Science Engineering in Computer Science

Relevant Coursework: Discrete Mathematics, Programming and Introductory Data Structures

Northville High School, Northville, MI

Dec 2015 - Jun 2019

GPA: **4.00** / 4.00, ACT: **35** / 36, SAT: **1590** / 1600

Relevant Coursework: Linear Algebra, Calculus 3, Advanced C++, Calculus 2, Statistics, Computer Science Java, Computer Science Principles, Chemistry, Physics C (Mechanics and E&M), Andrew Ng's Machine Learning, CAD 1

EXPERIENCE

Participant, Google Computer Science Summer Institute, Detroit MI

Jul 2019 - Aug 2019

- Accepted as one of 300 students from 2000 applicants to Google's Computer Science Summer Institute
- Studied from specially created project-based curriculum, including HTML/CSS, JavaScript, Python, and Google App Engine
- Created a 'social media for movie-goers' in a group of three and presented to current Google Software Engineers

Pro-bono Website Developer, Northville Ed. Foundation, Northville MI

Dec 2018 - Mar 2019

- Worked with design specifications of Northville Educational Foundation to create a website for the non-profit
- Created dynamic website template using React Framework, which decreased load times ~30% at same price

Participant, University of Michigan Summer College of Engineering Exposure Program, Ann Arbor MI

Jun 2018 - Jul 2018

- One of sixty students nationwide selected to attend summer program at the College of Engineering
- Collaborated to design and build VEX RC Robot in 2 weeks to solve specific challenge
- Developed custom control system using RobotC for better maneuverability

Software Engineering Intern, Predica Inc., Southfield MI

May 2018 - Oct 2018

- Investigate algorithms and data structures to find patterns in large datasets
- Pulled data through Javascript / LinkedIn API and stored using MongoDB

President, Northville Tech Research, Northville

Aug 2017 - Jun 2019

- Lead club aiming to create articles and projects demonstrating cutting edge technology
- Grew club to 15 members, published 8 articles on bimonthly basis with 2 in conjunction with local clubs / businesses
- Garnered close to 50 more subscribers, personally built static website to host articles/demos with Bootstrap

Management Lead, FRC 548 Robostangs, Northville MI

Oct 2016 - Jun 2019

- Charged with handling organizational challenges of an 80+ member team
- Completely automated a repeated, 10 minute 'sign-up' procedure using a barcode scanner and Javascript and templated a project procedure using Google Sheets used for 50+ projects
- Visualized sensor data from robot sensors using a Python script, halving the lengthy PID tuning process

PROJECTS

Independent Study in Data Science

- Led independent study in data science with AP CS teacher, focused on learning the basics of Machine Learning and Statistical Analysis, implemented a Random Forest Classifier from scratch in Python

SpotiDJ: A Better Way to Play Music

- Created a web application using Flask / Spotipy / Sqlite allowing users to join rooms and 'vote' for the next song played

SKILLS AND HONORS

- **Skills:** Python, Javascript, C++, Flask, Bootstrap, Google App Engine
- **Honors:** Briggs Scholarship Recipient (\$12,000), National Merit Finalist, AP Scholar with Distinction