

Prathit Shukla

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EDUCATION	UNIVERSITY OF MICHIGAN College of Engineering Bachelor's in Computer Science, May 2021 GPA: 3.74/4.00 – University of Michigan Dean's List, 2019 Coursework: Intro to Data Structures, Data Structures and Algorithms, Discrete Math, Computer Organization, Data Mining and Statistical Learning Clubs/Project Teams: Michigan Autonomous Aerial Vehicles, Bursley Multicultural Council, Science Olympiad	Ann Arbor, MI
SKILLS	Programming: C++, C, MATLAB, Python, BASIC, R Web: JavaScript, React, HTML + CSS Tools: Linux, Bash, Visual Studio Code, Git, DevOps, Agile, Jira	
EXPERIENCE	XOPS, INC Software Development Intern, Summer 2019 <ul style="list-style-type: none">• Learnt React within two weeks to develop additional functionality and resolve front-end software issues in xSUM, a web performance tool.• Collaborated with team members using daily Scrum meetings, ranging from planning Sprints in Jira to assisting with debugging issues and technical knowledge while receiving similar aid.• Documented and solved issues with setup and compatibility of development environment across different systems, decreasing the setup time for software team and new users.	New York, NY
2017	COMPCITI BUSINESS SOLUTIONS, INC Computer Engineering Intern, Summer 2017 <ul style="list-style-type: none">• Collaborated with network engineers on-site at client's offices in upgrading and maintaining computer networks, troubleshooting software issues, and building computers in both individual and team tasks.• Decreased total hours spent on-site during July and August allowing CompCiti to devote additional resources to upgrading existing infrastructure and decommissioning old technology, cleaning up and modernizing the company.	New York, NY
PROJECTS	AUTONOMOUS DRONE OBSTACLE NAVIGATION Team Programmer <ul style="list-style-type: none">• Worked with a 4-person team to setup a custom-built quadcopter using an Arduino, BeagleBone Blue board and Mission Planner software.• Implemented and tested PID control and response filters to calibrate the drone's movement.• Developed obstacle avoidance algorithms for vertical/horizontal/slant blocks in C++.	Ann Arbor, MI
2019	COMMAND LINE EUCHRE Co-Programmer <ul style="list-style-type: none">• Utilized C++ to make a command line interface for a single/multiplayer Euchre, a card game.• Developed complex and random bot strategies to challenge and engage players, creating a traditional game environment.• Tested and debugged using unit test framework macro, running numerous simulated games.	Ann Arbor, MI
2018	SMART IMAGE RESIZING WITH COMPUTER VISION Co-Programmer <ul style="list-style-type: none">• Built an image resizing algorithm in C++ that weighs sections of an image and removes unnecessary pixels to retain important details.• Implemented the seam-carving algorithm for content-aware resizing.	Ann Arbor, MI
ADDITIONAL	<ul style="list-style-type: none">• Researched quantitative applications of a Michelson Interferometer and received 3rd at NY Science and Engineering Fair and Outstanding Project Award at LISEF.• President of Orchestra, Member of TRI-M Honor Society, String Ensemble, and District Group.• Tutored students for SAT, ACT, and classwork through National Honor Society, 2018.• AP Scholar with Distinction and National Merit Commended Scholar, 2017.	