

# Aman Srivastav

Ann Arbor, MI 48109 • (650) 505 8306 • amansr@umich.edu • [LinkedIn](#) • [GitHub](#)

## EDUCATION

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### UNIVERSITY OF MICHIGAN

Ann Arbor, MI

*Bachelor of Engineering in Computer Science*

*Expected May 2022*

- **Course Highlights:** Web Systems, Computer Networks, Intro to Computer Organization, Database Management Systems, Data Structures and Algorithms, Operating Systems
- A passionate programmer, keen to take on challenging assignment, surpass expectations and deliver high quality work.

## WORK EXPERIENCE

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### BLUESTACKS

*Palo Alto, CA - May 2020 — July 2020*

#### Software Engineering Intern

- Implemented an Optical Character Recognition Micro-service for analyzing text in images to generate reports in JSON by using the Google Vision API and Flask web services in order to automate tournament result detection impacting 9 million users.
- Developed a framework for converting Web Pages into RSS 2.0 XML feeds and implemented a Flask REST API for a Flutter Blog app using RSS to display blogs. Built Web View and Search UI functionalities for Blog App using Flutter.
- Established a modular mobile test framework using Selenium, Pytest and Appium frameworks which was merged into a production test framework and improved test suite by decreasing QA related bugs by 20%.

### UROP – Undergraduate Research Opportunities Program

*Ann Arbor, MI - Sept 2019 — May 2020*

#### Undergraduate Researcher

- Created a Dialog Flow Conversational AI agent and created a Flask Web Service to parse requests from the Dialog flow API and created instance-group, instances and firewall rules on the Google Compute Engine in order to 'talk to' the cloud.

### MDST – Michigan Data Science Team

*Ann Arbor, MI - Jan 2019 — Jun 2020*

#### Project Lead and VP Of Recruitment

- Built a program using Google Sheets API and Selenium library to bypass Duo two factor authentication which generated automated but personalized recruitment emails to more than 1,000 students generating 20% increase in student participation.
- Led and assisted 5+ workshops on python for machine learning at MDST. Trained and guided 100+ students, assigning them with detailed tasks as well as setting critical milestones for success.

### TYNKER

*Mountain View, CA - June - 2019 — Aug 2019*

#### Summer Intern

- Implemented a Python script to scrape hex numbers from C++ source files, parse hex numbers into 5x5 LED grid representation and vice-versa using bit-shifts in order to provide an image-based user interface for 5 million users on the Tynker Platform.
- Collaborated with the Chief Architect and Co-Founder in order to lead a quality assurance during "crunch time" to meet stiff production deadlines on the Tynker Platform.

### INDUS OS

*Mumbai, India – June 2017 — July 2017*

#### Software Engineering Intern

- Designed a script to make calls to the Indus API and databases for autonomous fixing of labeling apps in the Indus App store impacting 10 million users.

## PROJECTS

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### COVID ASSIST (Twilio Hackathon)

*2020*

- Launched a Flask Web Service hosted on the Heroku platform to interface with the Twilio WhatsApp API in order to create a chatbot that returns the recovered, death and confirmed COVID 19 cases in 100+ countries, on the WhatsApp platform.

### UMICH Leccap Video Downloader

*2019*

- Exploited a security loophole in the University lecture recoding website (leccap.engin.umich.edu) by implementing a chrome extension to scrape AWS backed media and generate streamable and downloadable links using the JavaScript fetch JS API.

### MAAV - Michigan Autonomous Aerial Vehicles

*2020*

- Developed an image detection program in C++ using Open CV and April tag libraries, for identifying and triangulating relative positions of friendly drones ensuring seamless flight coordination between them.

## HONORS AND AWARDS

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- **Honors/Awards:** Deans' List Fall 2018 & Winter 2019, University Honors Fall 2018 & Winter 2019, Angel Scholar
- **Skills:** C++, Python, SQL, MongoDB, HTML, CSS, JavaScript, Flask, Django, Docker, React, Flutter, Google Cloud, AWS, Bootstrap, HTML, CSS, Full Stack Web Development, Pytest, Selenium, Appium, Raspberry Pi 3.