Ajinkya Nawarkar 21 Ace Avenue,

[*anawarkar.com*](http://www.anawarkar.com) [ajinkyanawarkar35@gmail.com](mailto:ajinkyanawarkar35@gmail.com) Starkville, MS 39759

**EDUCATION** **Bachelor of Science (Honors): Computer Science, December 2019**

**Mississippi State University (MSU)** – Starkville, MS

**CGPA**: 3.96

Minor: Mathematics, Business Management

# 

# EXPERIENCE Machine Learning SWE Intern | ADTRAN [Summer 2018]

* Performed data loop Analysis on VDSL Data Hlog, QLN, SNR, and BAT for self-healing automated network
* Introduced guided performance benchmarks for anomaly detection in access networks using supervised/unsupervised/regression Machine Learning techniques

# Software Engineering Intern (Fiber Access) | ADTRAN [Spring 2018]

* Delivered a new CLI interface for the EPON OLT network architecture in C++ using YANG over NETCONF
* Architected new network interface for ONT provisioning port over REST to ease configuration protocol
* Aided in the layout of new software packages, implemented unit testing and code refactoring while engaging in agile workflow and scrum standups to extend CI/CD

# Google CodeU Developer | GOOGLE [Spring/Summer 2017]

* Designed and developed a messaging app in C++ along with regular code reviews under the mentorship of Google Engineers
* Improved the client GUI of the app, added persistent message data storage, implemented a chat bot and statistics analyzing system

**Freshman Year Navigator | Center of Student Success** **[Fall 2016 to Fall 2017]**

* Mentored 300+ Freshman year students, served as a resource to help them succeed during their first year at state academically or otherwise (Basically, I was a campus parent)

# RESEARCH Undergraduate Researcher | High Performance Computing, MSU [Fall 2017 - Present]

* Constructing an API to compute intersection 2D/3D mesh surfaces by leveraging open-source libs CGAL, libIGL as a computational tool module for Finite Element Analysis
* Profiled open source project MAST to improve runtime and developed python/bash scripts as package installer

**Undergraduate Researcher | CSE Department, MSU**  **[Spring 2016]**

* Engineered a hexapod robot to navigate through a maze autonomously using ultrasonic sensors as a proof of concept for use in search and Rescue operation.
* Presented research abstract “Object Detection and Avoidance Using Hexapod Robot” at University Symposium

**PROJECTS Personal Website |** [**www.anawarkar.com**](http://www.anawarkar.com) **[Summer 2018]**

* Deployed a bootstrap themed static website with HTML/CSS and a few interesting JavaScript libraries

**NOTIFY APP | ADTRAN 18 - Hackathon [Summer 2018]**

* Constructed a java Android app backed with Reinforcement Machine Learning to prioritize phone notifications

**FINANACIAL VOICE | Crimson Hacks - Hackathon [Spring 2018]**

* Built a smart speech-enabled assistant to help blind people manage finance budget
* Integrated Machine Learning SVR algorithm python backend to make stock trade recommendations

**Hack State - Hackathon, (1st place) [Fall 2017]**

* Unified the MYO Armband and MYOduino API to wirelessly manipulate the mini scaled construction crane in Arduino with C++ by using hand gestures
* Placed 1st at Mississippi State University’s first hackathon powered by MLH

**OTHER Snake Game | Red-Box Movie Software Features | Cheat card Game** **[Fall 2015 - 2017]**

**PROJECTS**

# TECHNICAL Programming Languages: C/C++, Python, Shell, Java, PHP, Verilog, HTML/CSS

# SKILLS Technologies: Flask, Perforce, GitHub, JIRA, Arduino, G-Prof, Postman, MULTI, Android