anawarkar.com

# Ajinkya Nawarkar

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21 Ace Avenue,
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** **[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 PROJECTS

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

## TECHNICAL SKILLS

**Programming Languages:** C/C++, Python, Shell, Java, PHP, Verilog, HTML/CSS
**Technologies:** Flask, Perforce, GitHub, JIRA, Arduino, G-Prof, Postman, MULTI, Android