<u>anawarkar.com</u>

## Ajinkya Nawarkar hello@anawarkar.com

EDUCATION	Bachelor of Science ( <i>Honors</i> ): Computer Science, December 2019 Mississippi State University (MSU) – Starkville, MS CGPA: 3.97 / 4.0
	Minor: Mathematics Forbes Under 30 Scholar - 2019
EXPERIENCE	<ul> <li>Software Engineering Intern (SW Architecture)   QUALCOMM [Summer 2019]</li> <li>Enabled global synchronization using exclusive monitors between compute elements - CDSP and CPU</li> <li>Implemented user space spin lock using exclusive load/store atomic operations in C to improve software stack in Snapdragon processors (SoCs)</li> </ul>
	Machine Learning SWE Intern   ADTRAN       [Summer 2018]         • Performed loop analysis in Python 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
	<ul> <li>Google CodeU Developer   GOOGLE [Summer 2017]</li> <li>Designed and developed a messaging app in C++ along with regular code reviews under the mentorship of Google Engineers as one of the 100 students selected nationwide</li> <li>Improved the client GUI of the app, added persistent message data storage, implemented a chat bot and statistics analyzing system</li> </ul>
RESEARCH	<ul> <li>Undergraduate Researcher   High Performance Computing, MSU [Fall 2017 - Present]</li> <li>Constructing an open-source C++ library as an adaptive 3D mesh refinement API and a computational tool for topology optimization</li> <li>Profiled open source project MAST to improve runtime and developed Python/Bash scripts as package installer</li> </ul>
	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	I - SAFE   HackMobile 19 - QUALCOMM Hackathon[Summer 2019]• Developed a Java Android app to provide real time safety awareness at any given time and locationIntegrated Google maps API with android SDK to port data driven heat maps using Python
	<b>TRASH - TAG   Crimson Hacks - Hackathon, (Most Event Driven Award)</b> [Spring 2019]• Built a physical reward system to a social phenomenon to promote the trash tag• Utilized GCP, AWS and OpenCV for object, face detection/recognition as well as setting up SQL database
	NOTIFY APP   ADTRAN 18 - Hackathon       [Summer 2018]         • Constructed a Java Android app backed with Supervised Machine Learning to prioritize phone notifications
	FINANCIAL VOICE   Crimson Hacks - Hackathon       [Spring 2018]         • Built a smart speech-enabled assistant to help blind people manage finance budget       • Integrated Machine Learning SVR algorithm in Python backend to make stock trade recommendations
	MYO CRANE   Hack State - Hackathon, (1 <sup>st</sup> 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
TECHNICAL SKILLS	<b>Programming Languages:</b> C/C++, Python, Shell, Java, PHP, Verilog, HTML/CSS <b>Technologies:</b> Flask, Perforce, GitHub, JIRA, Arduino, G-Prof, Postman, MULTI, Android