



# Grady Michael Thomas

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## EDUCATION

### Massachusetts Institute of Technology

August 2019 - Present

*BS in Computer Science and Electrical Engineering Candidate, anticipated completion May, 2024*

*Boston, MA*

- Member of Phi Kappa Sigma Fraternity, Wilderness First Aid Certified Outing Club Co-Leader
- Relevant Coursework: Digital Design Lab, Intro Algorithms (S2022), Microcomputer Lab (S2022)

### NOLS Summer Semester in Alaska

May 2021 – July 2021

*Student*

*Palmer, AK*

- Spent 75 days camping, hiking, kayaking, and mountaineering with a small group of students and instructors
- Developed leadership, communication, risk management, and hard outdoor skills like first aid and navigation

### The Westminster Schools

August 2015 - May 2019

*Class of 2019*

*Atlanta, GA*

- National Honor Society, National Merit Scholarship Winner, National Cum Laude Society
- Varsity Diving, Captain for 2018/2019 Season
- Honor Council, Elected Coordinator to lead and organize Honor Code cases
- Boy Scouts, Achieved Eagle in April 2018, led troop as Patrol Leader, Instructor, and Order of the Arrow Rep

## EXPERIENCE & PROJECTS

### Voxel Lab Makerspace

September 2021 - Present

*Student Manager*

*Boston, MA*

- Helping kickstart the new Voxel Music Tech Makerspace through organization, web design, developing trainings and workshops, and building equipment like 3D printers
- Running open hours for MIT community 1-2 times a week and orienting new members, developing the space, helping members with their projects and teaching important skills like soldering

### Georgia Tech Research Institute

May 2020 – May 2021

*Software Development Co-Op*

*Atlanta, GA*

- Developed features for React Frontend, Django Backend, and C++ embedded systems for various parts of COARPS radar testing system (Purple Martin) by building off large existing codebase
- Designed and implemented SQL database structure to hold large amounts of raw data as well as system state
- Optimized parsing of raw binary radar data files down from ~6 minutes to ~6 seconds
- Granted DoD Secret Clearance valid for instant reactivation through April 2022 and gained experience working with Controlled Unclassified Information (CUI) and ITAR protected data

### Varsity Tutors/Independent Tutoring

April 2019 – May 2021

*Tutor*

*Atlanta, GA/Boston, MA*

- Tutored kids and adults online and in person in subjects like Python, Java, Physics, and Writing
- Communicated independently with clients to schedule sessions and quickly reach their learning goals

### BetterLesson Externship

January 2020

*Web Development Extern*

*Boston, MA*

- Built frontend and backend of tabs for home page with React and the Python Flask framework
- Gained experience with test driven development and the Agile system of development

## SKILLS/INTERESTS

- Programming: Python, Java, Arduino, React, MySQL, HTML, CSS, Git, Django, Flask, C++, Docker
- Hardware: basic circuit design and wiring, soldering, laser cutting, SystemVerilog + Vivado Design Suite
- Interests: guitar, music production, camping, hiking, climbing