

Michael M. Gorbunov

🏠 East Brunswick, NJ

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in [michael-gorbunov](#)

🌐 <https://mrgorbunov.codes>

Education

Rutgers University New Brunswick - Computer Science & Math (Double Major)

Graduating May 2025

Courses: Honors Differential Equations, Data Structures, Intro Linear Algebra, Discrete I & II, Intro Abstract Algebra

General: 3.5/4.0 GPA, Dean's List (Spring 2022), Credits: 56

Professional Experience

New Jersey Department of Environment Protection

NJ (statewide)

Forestry Assistant

March 2022 - Present

- Automating a manual clean up of state inventory data with **Python** and **SQL**, reducing 5 hour process to 2 minutes, catching human error in data being used, and adding configurability to process other states in under 30 minutes
- Building a graphical constraint builder program with **Python Tkinter** to setup linear optimization problems with thousands of variables and constraints, allowing conceptual focus and eliminating chance of Excel mistakes
- Writing a converter for .csv files that specify linear optimization problems in human-friendly form, allowing the team to run problems and advancing our focus to constraints
- Instructing the team on and making guides for **Git**, **Github**, Github wikis, and Markdown

Academy of Art of Highland Park

Highland Park, NJ

Senior Tech (Junior Tech until Sept 2019)

Aug 2017 - Oct 2021

- Reorganized company website on **Wordpress** using **Divi** in 30 days for Fall 2021 due to new class offerings
- Taught and guided instructors about **Zoom** and **Krita** (digital art software) for a quick transition to virtual studio
- Brought thousands of photos from different sources to **Google photos**, organizing for the different studio programs
- Constructed **Jotforms** for class registration and legal release, working closely with instructors, connecting payment, setting up auto-emailing, and building reports

Senior Art Coach (Junior Art Coach until Sept 2018)

Sept 2016 - Feb 2020

- Directed other art coaches about pedagogy, safety, and assigned tasks live during class
- Coached students ages 7-25, giving individual attention to 3 or 4 students in classes of ten or more and following studio syllabus

Leadership

Student Leadership Committee (SLC) of Junior Achievement of New Jersey (JANJ)

NJ (virtual)

Code Team Member

Sept 2020 - June 2021

- Constructed and taught a virtual workshop to 100+ students with a partner about **Arduino** and circuit basics
- Developed website front end with **Bootstrap**, being prompt with last minute changes about sponsors and schedule

East Brunswick High School Code Club

East Brunswick, NJ

Head of Competitive Programming and Advertising for 20-21 school year

Sept 2019 - June 2021

- Analyzed registrations for an event finding that highest effort advertising channels had least efficacy and vice versa, informing the advertising efforts for next year
- Placed 4th of 30 in a team of three at Monmouth University High School programming competition
- Lead team of three others to organize competitive programming and debugging competitions

Skills

Development: Java, Python3, Tkinter, SQLite3, MongoDB (basic), Node.js (basic), Git, Vim, OOP, C (basic), Unix commands

Scientific: LaTeX, Mathematica, Jupyter Notebooks, Matplotlib

Other: Blender, Krita, CAD (Fusion360, Inventor), Lightworks (basic), Microsoft Office, Soldering

Languages: Native English, Professional Russian Speaking, Limited Italian