

Thomas Ottaway

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EDUCATION

- **Brown University** Providence, RI
Applied Math-Computer Science *Expected Graduation May 2022*
 - Coursework: CSCI 0190 Accelerated Introduction to Computer Science, APMA 0350 Applied ODE's, APMA 1360 Applied Dynamical Systems, APMA 1160 Introduction to Numerical Optimization, CS 0220 Discrete Math, PHYS 0070 Analytical Mechanics
- **Albany High School** Albany, NY
Advanced Regents Diploma *Sept. 2014 - June 2018*
- **Other**
 - 4.0 in Multivariable Calculus, Linear Algebra, Ordinary Differential Equations, and Physics IV from SUNY Albany
 - Independent reading of computer vision research papers (primarily ResNets and variations such as Wide ResNets, Stochastic Depth, Pyramid nets etc.)

PAID COMPUTER SCIENCE EXPERIENCE

- **LingView (JavaScript, Node.js, React)** Brown University
Developer *Sept. 2018 - Present*
 - Working with extensive preexisting code-base
 - Implementing efficient regex search over a large corpus
 - Exploring search technologies such as Fuse, LUNR, and SOLR and determining the most appropriate tool
- **Math Co-op Website (Django, JavaScript, HTML, CSS)** Brown University
Developer *Sept. 2018 - Dec. 2018*
 - Full stack development
 - Extensive use of relational databases to allow the website to realize semantic connections
- **NYS ITS (Django, JavaScript, HTML, CSS)** Albany, NY
Student Assistant *Jul. 2018 - Aug. 2018*
 - Re-imagined and prototyped systems for patient testing in the event of an outbreak (motivated by the shortcomings of NYS's response to the Zika outbreak)
 - Built multiple automated systems for HL7 message generation to expand Remote Order Entry accessibility
 - Explored progressive web apps as a precaution against network failures

PROJECTS/VOLUNTEER

- **Exploring Numerical Methods (Python)** *Oct. 2018 - Present*
 - Exploring algorithms for finding numerical approximations to differential equations using Python's numpy library
 - Learning more about plotting using matplotlib
- **Celina's Kitchen (Flask, SQLAlchemy, HTML, CSS, Bootstrap)** Albany, NY
Web/Database Developer *Summer 2017 - Spring 2018*
 - Developed front- and back-end systems to store customer data and track orders
 - Worked with client to fit database to a unique and organic business model

SKILLS

- **Programming Languages/Frameworks** : Python, JavaScript, CSS, SQL, Django, PyTorch, Pyret, Flask, Node, React

ACTIVITIES

- Juggling (up to five objects), blues/swing dancing, running, music (clarinet and piano)