

# Boris Avrumov

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## EDUCATION

### Macaulay Honors College at Brooklyn College

Bachelor of Science (B.S.) in Computer Science | GPA: 3.89  
Dean's List (Fall 2015 – Fall 2019)

Brooklyn, NY  
May 2019

Relevant Coursework:

Algorithms (Honors), Data Structures, Object Oriented Programing (Honors), Database Systems, Statistics and Probability, Economics

## TECHNICAL SKILLS

Languages and Libraries: Java, React, Bootstrap/Reactstrap, HTML, CSS, JavaScript, Python, Flask, C++  
Platforms: Windows (XP, Vista, 7, 8, 10), Mac OS X, and Linux  
Applications: Visual Studio Code, Terminal, Sublime, GitKraken, Microsoft / Google Suites, Autodesk Inventor

## TECHNICAL PROJECTS

### Handwriting Recognition

September 2018 – December 2018

- Wrote a modular front end in React that is mobile friendly and receptive to design changes
- Adapted an HTML canvas library to export, convert, and resize user drawn images
- Built a Flask RESTful API that returns predictions from the trained Keras model

### Personal Site

January 2017

- Remodeled Windows 98 for a web browser with jQuery, CSS, and my own window objects
- Implemented dynamic DOM manipulation to visually and functionally mimic the operating system
- Provided the option for users to customize their desktop and interact with files and folders

### Schedule Optimizer | Personal Project

November 2015 – May 2016

- Programmed an algorithm to generate least-days-per-week and least-time-on-campus schedules
- Used the comparable interface to display schedules based on all sections of user inputted courses

### StationLocation (devpost.com/software/stationlocation)

April 2016

- Utilized NYC Open Data to populate and query a MongoDB database and return location data
- Formatted information with GeoJSON in order to perform calculations and output local train stops

### Durak Card Game

March 2015 – June 2015

- Developed an object oriented card game engine in JavaScript with a dynamic front end
- Ensured the DOM updates correctly when in-game actions are performed, including game reset
- Designed a logical computer player using with algorithms that play strategically by the rules of Durak

## PROFESSIONAL EXPERIENCE

### MVI Systems

Brooklyn, NY

Full-Stack Developer Intern

November 2018 – Present

- Updated React components to prevent users from submitting invalid information
- Implemented new sorting filters to give management users the ability to create custom views
- Modified schemas using Flask-RESTPlus to shrink payload size and reduce server response time

### Private Tutor

Brooklyn, NY

Discrete Math, Java, Data Structures

August 2018 – Present

- Coached students through sample LeetCode, HackerRank, and Turing's Craft problems
- Evaluated student code to push for optimization of space and time complexity
- Coordinated logistics of group sessions to demonstrate proofs and whiteboard solutions

### Retraction Watch

New York, NY

Data Entry

December 2016 – November 2017

- Verified the retractions of over 500 articles by cross referencing listed entries with over 20 scientific journals
- Automated the retrieval of field data from PubMed and logged it into an online database to centralize all information

## AWARDS

HackNY 2016 | Sponsored by Github  
Contestant

New York, NY  
April 2016

- Winner of "Best Developer Tool" for creating a Flask API that locates nearby NYC subway stations