Eliot Brown

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Education

NEW YORK UNIVERSITY TANDON SCHOOL OF ENGINEERING January 2019 - May 2022

Computer Engineering; Minor: Data Science *GPA: 3.55/4.00*

Relevant Coursework: Data Structures & Algorithms, Object Oriented Programming, Databases, Computer Architecture, Intro Data Science, Calculus I-III, Linear Algebra & Differential Equations, Data Analysis, Discrete Mathematics

Clubs: NYU Self Drive, Machine Learning Club, IEEE, Entrepreneurial Institute, Soccer

Experience

TA: Introduction To Programming and Problem Solving September 2020 - Current

- **Languages & Technologies**: Python, Git-Classroom, Git

General Dynamics Electric Boat Groton, CT

Engineering & Design Intern: Software Engineering Department *June - August 2020*

- Worked on classified payload systems in nuclear submarines collaborating with fellow software engineers
- Expanded and rebuilt GitLab CI Pipeline as well as adding features for the GUI development
- Developed a multitude of client-side JUnit tests in order to validate proper application functionality
- **Languages & Technologies**: Java, Python, Git, Linux

New York University: Summer Undergraduate Research Assistant Brooklyn, NY

Professor Li Jin: Civil & Urban Engineering C2SMART Lab *May 2019 - August 2019*

- Derived mathematical algorithms for more precise and stable GPS routing system and used LaTeX for the write up
- **Pending Publication**: Resilience of Dynamic Routing over Parallel-Link Networks against Recurrent & Random Sensing Faults

University of Connecticut: Research Assistant Storrs, CT

Professor Zbigniew Bzymek: Prevention Engineering *September 2018 - January 2019*

- Developed a basis for a new branch of engineering, Prevention Engineering which would focus in preventative steps taken when implementing and forming new technology based on ethics, consequences, and efficiency
- **Co-writer/editor**: Prevention Engineering Presentation: International Mechanical Engineering Congress & Exposition

University of Connecticut: Research Assistant Storrs, CT

Professor Joanne Conover: Physiology and Neurobiology Lab: Hydrocephalus Research *December 2017 - March 2018*

- Completed 3-D renderings of lateral brain ventricle volumes from brain scans for hydrocephalus in infants
- **Accepted Publication**: Spatiotemporal Characterization of the Ventricular-Subventricular Stem Cell Niche During Normal Brain Development, submitted to the journal, DEVELOPMENT

Activities & Projects

HackNYU, Brooklyn, NY *March 6th - March 8th 2020*

- Created LetMeCode https://eliotb26.github.io/HackNYU/; that allows the user transfer handwritten code to compilable code
- Handwritten text is recognized on a tablet/computer or image and output into an IDE instead of retyping
- **Software**: Trained two google-cloud API's (Vision & Auto-ML), Flask, Python, C++, JavaScript, HTML, CSS, Bootstrap

HackNYU, Brooklyn, NY *February 15th - February 17th 2019*

- Produced https://eliotb26.github.io/bee-careful/ as a central site to track what websites and applications do with users data
- 1st Place for MLH Sponsorship: Best Use of Domain
- **Software**: Flask, Python, JavaScript, HTML, CSS, XML

Instagram Database *April - May 2020*

- Created a basic Mock Instagram where you can register/login, follow, post, comment, and leave reactions
- **Software**: Python, Flask, MySQL, HTML

Software Lead NYU Self Drive VIP *September 2019 - Current*

- Utilizing the MuSHR platform to create a vehicle to be interactive with its surroundings with machine learning in python
- Participate on both the RID Controllers and the Perceptions sub-teams focusing on image detection

Skills & Interests

Languages: Python, Java, C++, R, MySQL, Flask, LaTeX, Verilog, HTML, CSS

Programs: Git, GitHub, Linux, Windows, Google-Cloud API's

Interests: Machine Learning, Computer Vision, Big Data, Renewable Energy, Software Engineering, Ethics

Other Skills: Public Speaking, Communication, Leadership