Eliot Brown

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| https://eliotb26.github.io/ | https://www.hackerrank.com/ecb465 |

Summary: Sophomore student studying Computer Engineering with three semesters of research experience who is eager to learn and able to develop skills quickly. Passionate about ethics of tech and the capabilities of machine learning.

Education

NEW YORK UNIVERSITY TANDON SCHOOL OF ENGINEERING JANUARY 2019 - MAY 2022

BS/MS Accelerated Program, Computer Engineering; Minors: Business Studies or Integrated Digital Media *GPA: 3.65/4.00*

Relevant Coursework: Data Structures & Algorithms (Python), Object Oriented Programming (C++), Databases (SQL), Introduction to Circuits, Multivariable Calculus, Linear Algebra & Differential Equations, Data Analysis, Discrete Math

Clubs: NYU Self Drive, Machine Learning Club, Cybersecurity (OSIRIS), Soccer

Experience

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

- **Project**: Created LetMeCode http://ftp.letmecode.tech/; a website that allows the user to handwrite code (on tablets or the computer), and through google-cloud machine learning API's (Vision & Auto-ML) the code will be detected and output on a file designated in that language. Images of code are also possible to upload into this application.
- **Software**: Trained two google-cloud API's (Vision & Auto-ML), Flask, Python, C++, JavaScript, HTML, CSS, Bootstrap

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

- **Project**: Produced http://beecareful.org/ to track what websites and applications do with users data. It was made as central platform for common users to understand the tracking of their data. Users can submit information about sites activities, cite their information, and build a reliable reputation. Won MLH Sponsorship for best use of their domain.
- **Software**: Flask, Python, JavaScript, HTML, CSS, XML

New York University: Summer Undergraduate Research Assistant Brooklyn, NY

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

- **Purpose**: Ran mathematical simulations for the stability predictions in network links. Derived mathematical algorithms for more precise and reliable GPS routing systems. Made graphs using Python. Learned LaTeX to format the paper.
- **Pending Publication**: Resilience of Dynamic Routing over Parallel-Link Networks against Recurrent and Random Sensing Faults

University of Connecticut: Research Assistant Storrs, CT

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

- **Purpose**: Developed a basis for a new branch of engineering, Prevention Engineering. This major 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*

- **Purpose**: Completed 3-D renderings of lateral brain ventricle volumes utilizing programs such as ITK Snap and Brain Suite to track data for hydrocephalus in infants. Separated the lateral ventricles from brain tissues and the skull.
- **Accepted Punishment**: Spatiotemporal Characterization of the Ventricular-Subventricular Stem Cell Niche During Normal Brain Development, submitted to the journal, DEVELOPMENT

Skills & Interests

- **Languages**: Python, C++, MySQL, Verilog, Flask, LaTeX, HTML, CSS
  Interests: Machine Learning, Computer Vision, Cybersecurity, Renewable Energy, Software Engineering, Ethics
  Programs: GitHub, Google-Cloud API's, Fusion 360, ITK Snap, Brain-Suite, 3D Slicer, Solid Works CAD
  Other Skills: Public Speaking, Communication, Initiative, Leadership

Activities & Projects

- **NYU Self Drive**: Participating on the Computer Science sub-team on Self Drive. Currently I am using the MuSHR platform to adjust the vehicle to be interactive with its surroundings with machine learning in python. Within the computer science sub-team, I participate on both the RID Controllers team and the Perceptions team.
- **Bomb Defusing Robot 2019**: Led a team to build a robot that could navigate a terrain while avoiding obstacles.
- **Volunteer**: Habitat for Humanity: Helped organize and preserve a shop that stores materials for those in need.
- **Resume**: Designed this Resume using LaTeX. Studied formatting as well as serves as good practice.
- **DECA Senior Vice President 2017- 2018**: Organized events and raised hundreds of dollars for local families in need.