# Former Education / Coursework

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| (18-461/661) Intro to Machine Learning For ECE (Graduate)  (15-410) Operating System Design And Implementation |
| (15-351) Algorithms and Advanced Data Structures  (18-491) Digital Signal Processing |
| (18-370) Fundamentals Of Control |

* Student at Carnegie Mellon University.
* Teaching Assistant at Carnegie Mellon University.
* B.S. In ECE | May 2020
* M.S. In ECE | May 2023
* Dean’s List Spring 2018

# Work

* **Greenstar** **Group | Software Contractor | December 2020 – Current.**

Managing technology in financial, healthcare, CRM, and digital retail domains. Determining pricing and budgeting with clients, allocating software talent, and executing projects precisely to specification.

* **Uncommon Core | Software Engineer | November 2019 - November 2020**

Developed an automatic grading API incorporating techniques such as Hough Line Transforms, Gaussian Blur and Convolutional Neural Networks, and deployed it on Google Cloud Kubernetes Engine.

* **CMU Dept. Of ECE | Teaching Assistant For (Graduate) Introduction To Machine Learning | Spring 2020**

Taught graduate students fundamental machine learning techniques such as Linear Regression, Naïve Bayes, Logistic Regression, Multiclass Classification, SVMs, Nearest Neighbors, Decision Trees, Ensemble Methods, Neural Networks, Clustering, PCA, Online Learning, and Reinforcement Learning.

* **CMU Dept. Of ECE | Theoretical Machine Learning Researcher | Spring 2020**

Implemented various machine learning methods to classify children’s stages of sleep and detect health anomalies given recorded brain waves and vitals from exclusive hospital shared datasets.

* **General Motors | Embedded Controls Intern | Stability Of Vehicle | Summer of 2019**

Applied control theory concepts to design a brake system for a trailer. The system included ABS and ESC safety features. The system detected instability of a trailer in real time and dampened trailer sway by engaging the brakes.

* **CMU Dept. Of ECE | Signal Processing Researcher | Ultrasonic Positioning Systems | Summer of 2018**

Worked on close range ultrasonic positioning systems for blind person navigation. Chirps, STFTs, and FFTs were some of the DSP concepts used to implement the system.

* **CMU ISR | Software/Data Researcher | Repository Bug Data Analysis | Summer of 2017**

Data mined and analyzed millions of code-build records from Travis CI to empirically analyze different coding practices.

# Skills

* Docker | Kubernetes | Python | Flask | MATLAB | R | C | C# | Java | JS | HTML | CSS | PHP | React | Ionic | Electron Netlogo | Scheme | Heroku | Google Cloud | AWS | SQL | Mongo | Pytorch | Tensorflow | Latex | Jinja2

# Track And Field Achievements

* Ran the 46th fastest indoor 300m time of 2016 in the U.S.A (35.16 Fully Automatic Time, Stuyvesant Grey Ducks)