

# Mark Lavrentyev

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## Relevant Coursework

Acc. Intro to CS • Intro to Software Eng. • Logic for Systems (Formal Methods) • Deep Learning • Programming Languages • Abstract Algebra • Prescriptive Analytics • Probabilistic Methods in CS

\* - denotes in-progress course

## Programming Languages

Python • Java • Racket • Haskell • SQL • JavaScript • HTML/CSS • Alloy

## Technologies

Heroku • jQuery • TensorFlow • Django • Oracle SQL • PostgreSQL • Linux

## Other Skills

English (native) • Russian (native) • Git • Tableau • LaTeX

## Awards

AP Scholar with Distinction • National Merit Finalist

## Social Media



[github.com/MLavrentyev](https://github.com/MLavrentyev)



[linkedin.com/in/mlavrentyev](https://www.linkedin.com/in/mlavrentyev)



[@mark\\_lavrentyev](https://twitter.com/mark_lavrentyev)



[lavrema@outlook.com](mailto:lavrema@outlook.com)

[mark\\_lavrentyev@brown.edu](mailto:mark_lavrentyev@brown.edu)

## Education

Brown University, Providence, RI Sep. 2018 - present

- Anticipated concentration: Sc.B., Computer Science
- GPA: 3.93/4.00

Xavier High School, Middletown, CT Sep. 2014 - May 2018

- GPA: 4.23/4.33; Class rank: 2/159

## Work Experience

Microsoft: *Software Engineering Intern* May - Aug 2020

Fidelity Investments: *Data Engineering Intern* May - Aug 2019

- Developed package to parse potential financial crime alerts for data analytics
- Worked in Oracle SQL developing views for risk case management team

Citizens Campaign for the Environment: *Canvasser* July - Aug 2018

- Built public support for passing CT's first state water management plan
- Fundraised \$6,500+ and generated 250+ letters to state legislators

Air Force Research Lab: *Wright Scholar* June - Aug 2017

- Developed MOSSE-based fast image annotation program for machine learning research
- Optimized face-detection program running on Jetson TX2

## Independent Projects

Chrome Dino Neural Network ([github.com/MLavrentyev/ChromeDinoNet](https://github.com/MLavrentyev/ChromeDinoNet)) (*in progress*)

- Tensorflow/Keras application to play Chrome's dino game on its own

Purchase Request Manager ([github.com/MLavrentyev/TeamManager](https://github.com/MLavrentyev/TeamManager))

- Application for teams to manage purchase requests through centralized site
- Built using Django, PostgreSQL; runs on Heroku

MNIST Digit Classifier ([github.com/MLavrentyev/MNIST-Neural-Net](https://github.com/MLavrentyev/MNIST-Neural-Net))

- Classifies handwritten digits using neural network

Other projects can be found at [github.com/MLavrentyev](https://github.com/MLavrentyev)

## Activities

Brown Formula SAE Racing Team Sep. 2018 - present

- Aided in designing, building, and racing a formula-style race car
- Led engine tuning effort through engine & chassis dyno testing

FIRST Robotics Competition Team 4557 Sep. 2014 - May 2018

- Programming team lead (2017), drive team member (2016-2018)
- Developed vision & motion profiling code for auto-alignment and precise actuation
- Qualified for & participated in world championship in Detroit (April 2018)

Moscow Inst. of Physics and Tech. Correspondence School 2013 - 2017