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

linkedin.com/in/mlavrentyev

@mark_lavrentyev

lavrema@outlook.com
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) *(in progress)*

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

Purchase Request Manager (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)

- Classifies handwritten digits using neural network

Other projects can be found at 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