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THOMAS DUDZIK

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EDUCATION

Massachusetts Institute of Technology (MIT) Cambridge, MA
Candidate for M.Eng in Electrical Engineering & Computer Science – 5.0/5.0 GPA *Class of 2020*
S.B. in Computer Science & Engineering and in Mathematics (double major) – 4.9/5.0 GPA *Class of 2019*
Honor Societies: Eta Kappa Nu, Tau Beta Pi
Relevant Coursework: • Advanced Algorithms • Linear Algebra • Machine Learning • Computer Vision • OS Engineering • Probability • Theoretical Statistics • Cryptography • Bayesian Inference • Information Theory

Westminster School Simsbury, CT
Valedictorian - 97.0/100.0 (unweighted), SAT: 2340 – M: 800, CR: 740, W: 800 *Class of 2015*
Awards: CollegeBoard National AP Scholar, Yale Book Award

EXPERIENCE

Zoox San Francisco, CA
Software Engineering Intern – Perception Team *Summer 2019*
Researching and developing novel computer vision approaches for classifying and understanding dynamic environments.
Implementing a semi-supervised convolutional network for monocular depth estimation on board autonomous vehicles.

J.P. Morgan New York, NY
Markets Analyst – FX E-Trading *Summer 2018*
Improved price discovery algorithm for G10 FX forwards via statistical lead/lag analysis of broker time-series data.
Developed a chatbot to identify broker quotes indicating live price updates using NLP and machine learning techniques.

Toyota-CSAIL Joint Research Center Cambridge, MA
Undergraduate Researcher – Rus Lab *Fall 2017 – Spring 2018*
Created a novel verification system to evaluate autonomous driving capabilities of deep neural network architectures.
Implemented viewpoint transformation of camera frames to adjust car sensor inputs according to calculated error.

Blockstream Mountain View, CA
Software Engineering Intern – Core Infrastructure Team *Summer 2017*
Developed an entirely new blockchain format focused on scalability, user privacy, and fungibility.
Implemented the protocol as an open-source Bitcoin sidechain, decreasing disk and network usage by tens of gigabytes.
Improved a large-scale decentralized cryptographic system that handles over 300,000 transactions per day.

Philips Cambridge, MA
Software Engineering Intern – Acute Care Solutions (ACS) Department *Summer 2016*
Prototyped various reinforcement and deep learning algorithms for use in behavior change applications/healthcare.
Researched machine learning methods to better adapt to individuals for improved efficacy and user engagement.

NASA Biologic Analog Science Associated with Lava Terrains (BASALT) Cambridge, MA
Undergraduate Researcher – MIT Man Vehicle Lab *Spring 2016*
Optimized features for the SEXTANT API to allow for planning of efficient extravehicular traverses.
Integrated resource-based path-optimization into the widely-utilized xGDS software using Python.

LEADERSHIP, ACTIVITIES, & PROJECTS

NodeUI *Nov. 2015*
HackHarvard Hackathon Group Project
Created an intuitive, gesture-based UI focused on ease of use through integration of a Leap Motion sensor.
First place winner in the Pure CS category at HackHarvard 2015 out of over 500 competitors.

SKILLS & INTERESTS

Python • C/C++ • Java • MATLAB • Git • TensorFlow/Keras • OpenCV • Blockchain

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English • Polish • Spanish • Rubik's Cubes • Cycling • Alto Saxophone • MIT Bitcoin Club