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David Lauerman

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Education

Providence, RI	**Brown University**	Class of '23.5

- Sc.B. in Applied Mathematics and Computer Science, current GPA: 3.95
- Coursework: Operating Systems, Data Structures and Algorithms, Deep Learning and Machine Learning, Data Science; Basics of Engineering; Numerical Optimization and Operations Research; Strong background in lower level maths as well as statistics and probability

Buffalo, NY	**City Honors High School**	Class of '19

- Graduated with a 4.0 GPA
- New York State Award for Academic Excellence (Higher Level), Advanced Regents with Honors with a Science/Math Designation, AP Scholar, IB Diploma Recipient
- Kazuo Inamori School of Engineering Scholastic Recognition Award, Erie-Niagara Scholastic Achievement Recognition, Society of American Military Engineers Scholarship

Employment

Developer Intern	**Mod Tech Labs**	Summer 2023

- Internship to begin in the summer, working closely with the founders on readying cutting edge ML products for launch

Research Intern	**Oak Ridge Labs/UTK**	Summer 2022

- Conducted research in chemistry from a computer/data science standpoint under Dr.Thomas Zadowinski
- Constructed a graph-based deep learning model to predict molecular characteristics
- Worked closely with people from a broad range of disciplines concentrated in an unfamiliar field, demonstrating an ability to quickly learn and apply new topics, as well as to find new applications of previous knowledge.
- Contributed to a publication intended to be published in 2023

Project Intern	**HarpData Consulting**	Summer 2020

- Supported long-term projects as well as daily IT consulting work
- Surveyed for, installed, and setup WiFi hardware on the Buffalo Connect WiFi initiative to provide WiFi access to under-served communities, in addition to project organization duties
- Played a key role in transitioning the company to a new Microsoft Azure license, as well as in transitioning other companies to Microsoft 365 and Azure

Languages, Technologies, Projects

- Java, Python, C, C++, MATLAB, SQL, Spark
- Experience with python libraries such as TensorFlow, Pytorch, Numpy, Pandas; familiarity with LaTEX, Microsoft 365 and Azure, Cisco WiFi services
- Created an RNN based deep neural network with the goal of generating classical music, refer to github here

Additional Interests and Abilities

- Began volunteering for St. Mark's Church in middle school, Habitat for Humanity in high school, Hope High School STEMs Tutoring in college, currently a weekly volunteer with Sojourner House
- Multi-instrumental musician, studying music theory and production, student radio member
- Fluency in Spanish, learning Turkish and German