

# Nathaniel Diamond

GitHub: NateDiamond

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## EDUCATION

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**Cornell University**, College of Engineering, Ithaca, NY **May 2020**  
*Master of Engineering, Computer Science*

**Cornell University**, College of Engineering, Ithaca, NY **May 2019**  
*Bachelor of Science, Computer Science*

GPA: 4.14 | Summa Cum Laude | Dean's List All Semesters | Cornell Running Club President

**Relevant Courses:** Formal Verification, Machine Learning, Intro to Algorithms, Honors Linear Algebra, Abstract Algebra, Foundations of Mathematics, Theory of Computing, Multivariable Calculus, Discrete Structures, Economics

**New Milford High School**, New Milford, CT **June 2016**  
*Valedictorian*

- Weighted GPA: 4.83; Unweighted: 4.0 | Class Rank 1/312
- Cross Country and Track & Field Captain

## PROFESSIONAL EXPERIENCE

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**Airbnb**, San Francisco, CA, *Software Engineering Intern* **Jun 2019 – Aug 2019**

- ML Engineer for Pricing Modeling team
- Used Airflow, Spark, Gensim, Hive, and other back-end technologies to create a pipeline that generates low-dimensional vector embeddings of listings on Airbnb's platform and clusters those that are similar together

**Workday**, Pleasanton, CA, *Software Engineering Intern* **May 2018 – Aug 2018**

- Application Developer for Workday Student
- Learned Workday's proprietary language, XPressO, and pushed customer features into production
- Integrated Workday email notification system for university recruiters into Student product

**Cornell University**, Ithaca, NY, *Teaching Assistant* **Aug 2017 – Present**

- Fall 2019 Graduate Teaching Assistant for *Data Structures and Functional Programming*
- Spring 2019 Teaching Assistant for *Honors Discrete Structures*
- Spring 2018 Teaching Assistant for *Introduction to Data Science*
- Fall 2017 Teaching Assistant for *Discrete Structures*

**SmarterCloud**, Chicago, IL, *Software Engineering Intern* **Jan 2017 – Sept 2017**

- Built Java back-end for webpage using Spring MVC (an application framework) and unit tested with Mockito
- Used MySQL to store customers' cloud credentials on AWS

## EXTRACURRICULAR ACTIVITIES

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**Camp Kesem**, *Counselor* **Oct 2018 - Present**

- Annual summer camp for children who are affected by a parent's cancer
- Raise money and spend a week during the summer volunteering as a counselor

**Feel Good**, *Member of Cornell Chapter* **Feb 2018 - Present**

- Sell grilled cheeses with suggested donations in case individual is food insecure and needs affordable meal
- All proceeds go to Choice Humanitarian, The Hunger Project, Pachamama Alliance, and Water for People

## PROJECTS

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- Tetris Game Suite* – Made in C/C++ to download onto a FRDM K64 microcontroller and plays on LED Matrix
- Neural Network* – Coded in Python using NumPy library
- 20Q* – Built in functional language OCaml; self-learning capabilities with Naïve Bayes prediction model