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## EDUCATION

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### Cornell University

Ithaca, NY

*Bachelor of Engineering in Computer Science; GPA: 3.2*

*Aug. 2016 – May. 2020*

- Relevant Coursework: Analysis of Algorithms, Database Systems, Artificial Intelligence, Data Structures & Functional Programming, Systems Programming, Discrete Structures, Networks, Engineering Probability & Statistics, OOP & Data Structures, Intro to iOS App Development, Principles of Backend Engineering
- Awards: Dean's List (GPA: 3.62) *Spring 2018*

## EXPERIENCE

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### Lockheed Martin

Manassas, VA

*Software Engineering Intern*

*Jun. 2018 – Aug. 2018*

### Netsurit

Brooklyn, NY

*DevOps Engineering Intern*

*Jun. 2017 – Aug. 2017*

- Utilized remote accessing software (LabTech/ConnectWise Automate) to monitor 80+ servers and 2000+ client workstations for patching and troubleshooting.
- Wrote scripts using proprietary LabTech syntax to automate the assessment of newly-issued tickets, deploy specific protocols and executables, and debug or update machines.
- Resolved proactive and NOC alerts, resulting in over 100 hours of accumulated ticket maintenance.
- Participated in pair programming with other engineers, and assisted daily customer phone support.

### Montclare Lab for Protein Engineering

Brooklyn, NY

*Junior Researcher @ NYU Tandon School of Engineering*

*Jun. 2014 – Sep. 2014*

- Modified the wild type *Phosphotriesterase* enzyme via bacterial transformation of AF-IQ cells into M3 and S5 mutants in order to combat organophosphates such as nerve agents and pesticides.
- Assessed enzyme kinetics of *Phosphotriesterase* by using SDS-PAGE and enzyme assay methods.
- Measured catalytic efficiency through graph analysis of Lineweaver-Burk plots and Michaelis-Menten curves.
- Applied experimental findings practically towards sarin gas, pesticides, and insecticides.

## SKILLS

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**Languages:** OCaml, Java, JavaScript, Python, C, Swift, HTML, CSS, R

**Operating Systems:** Windows, Linux (Ubuntu), Mac OS X via VMs

**Applications:** Git, Logisim, Blackbox/Glassbox/JUnit Testing, Vim, LaTeX, Microsoft Office

**Lab Skills:** Bacterial Transformation & Induction, Gel Electrophoresis, Cell Isolation, Sonication, Centrifugation, Fast Protein Liquid Chromatography, Dialysis, Enzyme Assays

**Extracurriculars:** Poseidon Dragon Boat Team, Cornell Varsity Badminton Team (D-I)

## PROJECTS

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**Tetris AI:** Simulated Tetris gameplaying bot that uses genetic & greedy algorithms to clear 100+ lines in JavaScript.

**Dijkstra Visualization:** Visual render of Dijkstra's shortest path algorithm written in Java using heaps.

**MIPS Architecture Processor:** Fully-pipelined MIPS processor (circuit) with a working ALU, created in Logisim.

**OCaml Interpreter:** Interpreter with roots in OCaml, JavaScript, and Racket, which can handle semantic commands

**UNO!:** Fully functioning card game, UNO!, designed with difficult CPUs (AIs) and a visual GUI, written in OCaml.

**Study Pairing App:** iOS application that pairs students with tutors to encourage studying (*BigRed//Hacks, 2017*).