Benjamin Michalowicz

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EDUCATION

STONY BROOK UNIVERSITY
B.S in Computer Science
B.S in Applied Mathematics
May 2020 | Stony Brook, NY
Cum. GPA: 3.36/4.00
Marching Band
Stony Brook Computing Society
TKD at SBU

PARK RIDGE JR./SR. HIGH SCHOOL
May 2016 | Park Ridge, New Jersey
GPA: 3.70/4.00
National Honor Society
Marching Band

LINKS

Github:// **BTMichalowicz**
LinkedIn:// **benmichalowicz**

COURSEWORK

UNDERGRADUATE
Computer Science I, II, III
Systems Fundamentals I, II
Foundations of Computer Science
Calculus I, II
Theory of Computation
Linear Algebra
Finite Mathematical Structures

SKILLS

PROGRAMMING
Java • C • Python • HTML
CSS • Javascript • C++
Shell Scripting • LATEX • R

OPERATING SYSTEMS
Windows • GNU/Linux • OS X

LANGUAGES
English • French

CERTIFICATIONS
•QPR Certified
•4th degree black belt, Tae-Kwon-Do
• Certified sparring judge (corner referee)

WORK EXPERIENCE

COMPAS LAB, STONY BROOK UNIVERSITY | Research Assistant
June 2018 - Present
- Undergraduate research in Stony Brook University's COMPAS lab. Worked with PhD students to analyze processor/microarchitecture performance through the CPU2006 benchmark suite on a real system and a simulated system, and then reconfigure the simulator to match the performance of the real system

PRIVATE PERCUSSION INSTRUCTOR | Self-Employed
Summer 2016, 2017 | Park Ridge, New Jersey
- Taught drummers ages 6-18 in non-melodic percussion, basic rudiments, drum set dexterity/ambidexterity, various drumming styles and genres.

STONY BROOK UNIVERSITY | Marching Band Summer Staff
Apr - Aug 2018 | Stony Brook, New York
- Aided in recruitment for the 2018-2019 Marching Band Season/Academic Year. Assisted in planning for band camp, football games, and halftime shows for the fall 2018 semester.

MASTER YOO'S SUMMIT MARTIAL ARTS | Instructor
June 2012 - Aug 2017 | Park Ridge, New Jersey
- Led classes of all ranked levels, from beginner to 2nd degree black belt; I taught how to spar, proper blocking/striking techniques, self defense, and weapon techniques while keeping students safe.

PROJECTS

2048 IN MIPS ASSEMBLY | System Fundamentals I Project
November 2017 | Stony Brook, New York
Used MIPS Assembly to create functions simulating the gameplay of 2048; strong understanding of low-level programming, data-management/memory navigation.

METRO MAP MAKER | Computer Science III Course project
October - December 2017 | Stony Brook, New York
Created a small application using Java with JavaFX and other custom frameworks; learned the importance of design patterns/how they fit into software development.

STUDENT RECORDS | Small Student Database
A basic student database written in C. Uses a linked-list backing structure. Takes in a formatted input file and manipulates the data based on the command-line flags used.

OTHER EXPERIENCE/AWARDS

2007-Present	Percussionist	
	• Bergen County High School Orchestra	2015, 2016
	• Drum Line Section Leader (Snare), SBU	2017-Present
	• Drum Line Section Leader, PRHS	2015-16
	• Shirley Strum Kenny Founders Award, SBU	2018
	• Session Drummer	2018
2002-Present	Martial Artist	
	• 4th degree black belt, Tae-Kwon-Do	2015 - Present
	• Tae-Kwon-Do Teacher	2012 - 2017