

# Benjamin Michalowicz

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## EDUCATION

### STONY BROOK UNIVERSITY

B.S. COMPUTER SCIENCE  
May 2020 | Stony Brook, NY  
GPA: 3.40/4.00

Clubs/Orgs:  
Marching Band  
Stony Brook Computing Society  
TKD at SBU  
Stony Brook Live

### PARK RIDGE JR./SR. HIGH SCHOOL

May 2016 | Park Ridge, New Jersey  
GPA: 3.70/4.00  
National Honor Society  
Marching Band

## UNDERGRADUATE COURSE- WORK

Computer Science I, II, III  
Systems Fundamentals I, II  
Calculus I, II, III  
Linear Algebra  
Finite Mathematical Structures  
Technical Communications  
Analysis of Algorithms  
Principles of Programming Languages

## SKILLS

### PROGRAMMING

Java • C • Python • HTML  
CSS • Javascript • C++  
Shell Scripting •  $\text{\LaTeX}$

### OPERATING SYSTEMS

Windows • GNU/Linux • OSX

### LANGUAGES

English • French

### CERTIFICATIONS

- QPR Certified
- Certified sparring judge (corner referee)

## WORK EXPERIENCE

### STONY BROOK UNIVERSITY | UNDERGRADUATE RESEARCH ASSISTANT

May 2018 - Present | Stony Brook, New York

- Undergraduate research in Stony Brook University's COMPAS lab. Worked with PhD students and the professor directing the lab to help finish projects and learn about computer systems of all types.

### STONY BROOK UNIVERSITY | TEACHING ASSISTANT

Jan 2019 - Present | Stony Brook, New York

- Held weekly office hours, led weekly recitations, and collaborated with the professor to help students understand material in Stony Brook University's CSE 216 course (Programming Abstractions).

### 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; taught sparring, blocking/striking techniques, self-defense, and weapon techniques while keeping a safe environment for students.

## PROJECTS

### 2048 IN MIPS ASSEMBLY | LEAD DEVELOPER

November-December 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 manipulation.

### FES2 / SIMICS SIMULATIONS | RESEARCH PROJECT

June-December 2018 | Stony Brook, New York  
Extensively debugged the FeS2 simulator platform to enable performance analysis on checkpoints of benchmark applications during billion-cycle experiments in SIMICS; created scripts to gather data in .csv formats to create time series plots

### STUDENT RECORDS | SMALL STUDENT DATABASE

February 2018  
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.

### "KETCHUP" ON YOUR WORK | SBUHACKS 2018 PROJECT

September 2018 | Stony Brook, NY  
Hackathon project placing a creative spin on use of the pomodoro technique for studying. Used HTML, CSS, Javascript, Node.JS, and the Google Tasks API. Worked in a team of four and won "Best Domain Name."

## OTHER EXPERIENCE/AWARDS

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