

# Benjamin Michalowicz

<http://btmichalowicz.github.io> | <https://github.com/BTMichalowicz>  
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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

M.S., COMPUTER SCIENCE  
Ant. May 2021 | Stony Brook, NY

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

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

## COURSEWORK

### UNDERGRADUATE

Computer Science I, II, III  
Systems Fundamentals I, II  
Calculus I, II, III  
Operating Systems  
Technical Communications  
Analysis of Algorithms  
Principles of Programming Languages  
Principles of Database Systems

### GRADUATE

Data Science Fundamentals

## SKILLS

### PROGRAMMING

Java • C • Python • HTML  
CSS • Javascript • Node.JS  
C++ • Shell Scripting • SQL  
•  $\text{\LaTeX}$  • MIPS Assembly

### OPERATING SYSTEMS

Windows • GNU/Linux • OS X

### SPOKEN LANGUAGES

English • French

### CERTIFICATIONS

- QPR Certified
- Certified sparring judge (corner referee)

## WORK EXPERIENCE

### BAE SYSTEMS | SOFTWARE TECHNICAL INTERN

May 2019 - Present | Stony Brook, New York

- Aided in design and implementation of software projects using Agile techniques specializing in defense systems; utilizing both Windows and Linux environments.

### 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 on projects focusing on computer systems, particularly in massively parallel and scalable server systems.

### STONY BROOK UNIVERSITY | TEACHING ASSISTANT

Jan 2019 - Present | Stony Brook, New York

- Held weekly office hours, led weekly recitations, and helped 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

### E-COMMERCE PRO | COURSE PROJECT/DEVELOPER

March-May 2019 | Stony Brook, New York  
Used web-design technologies and frameworks (HTML, CSS, Node.JS) and SQL/MySQL to create a web application for an e-commerce application.

### FES2 / SIMICS SIMULATIONS | RESEARCH PROJECT

May-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

### MULTI-THREADED CACHE SIMULATOR

May 2018 | Small Personal Project  
Used the C language and POSIX threads to design a simple direct-mapped cache system with one level of caches and simple page table hierarchy; demonstrates knowledge of cache systems and low-level/thread-safe programming.

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

September 2018 | Stony Brook, NY  
A creative spin on use of the pomodoro technique for studying smarter. Used HTML, CSS, Javascript, Node.JS, and the Google Tasks API. 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