

# Benjamin Michalowicz

<http://btmichalowicz.github.io>  
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102 Spring Valley Road, Park Ridge, New Jersey

## EDUCATION

### STONY BROOK UNIVERSITY

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

#### Activities:

Marching Band  
Stony Brook Computing Society  
TKD at SBU  
Stony Brook Live

#### Awards:

Stony Brook Campus Grant  
Dean's List

### 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](#)

## RELEVANT COURSEWORK

### UNDERGRADUATE

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

June 2018 - Present | Stony Brook, New York

- Undergraduate research in Stony Brook University's COMPAS lab. Worked with PhD students to analyze processor/microarchitecture performance through benchmark suites on real and simulated systems.

### 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.

### 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.

### 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
- Drum Line Section Leader (Snare), SBU
- Shirley Strum Kenny Founders Award, SBU

2015, 2016  
2017-Present  
2018

2002-Present Martial Artist

- 4th degree black belt, Tae-Kwon-Do
- Tae-Kwon-Do Teacher

2015 - Present  
2012 - 2017