

Benjamin Michalowicz

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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 • \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 | 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.

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