

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

RELEVANT COURSEWORK

Computer Science I, II, III

Systems Fundamentals I, II

Calculus I, II, III

Finite Mathematical Structures

Technical Communications

Analysis of Algorithms

Principles of Programming Languages

Principles of Database Systems

SKILLS

PROGRAMMING

Java • C • Python • HTML

CSS • Javascript • C++

Shell Scripting • \LaTeX

OPERATING SYSTEMS

Windows • GNU/Linux • OS X

SPOKEN 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

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

Used the C language and POSIX threads to simulate a simple direct-mapped cache system with one level of caches and a simple page table hierarchy; demonstrates knowledge of cache systems, low-level programming, and thread-safe programming.

"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