Benjamin Michalowicz

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EDUCATION

STONY BROOK UNIVERSITY
B.S, COMPUTER SCIENCE
May 2020 | Stony Brook, NY

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

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
Advanced Sys. Prog. in UNIX/C

GRADUATE
Data Science Fundamentals
Principles of Programming Languages
System Security

SKILLS

PROGRAMMING
Java • C • Python • HTML
CSS • Javascript • Node.JS
C++ • Shell Scripting • SQL
• LaTeX • MIPS Assembly

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 - May 2019, Dec 2019-Feb 2020 | 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, microarchitecture, and cloud infrastructure.

BAE SYSTEMS | SOFTWARE TECHNICAL INTERN
May 2019 - Aug 2019 | 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 | TEACHING ASSISTANT
Jan 2019 - Dec 2019 | 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 Season. Assisted in planning for band camp, football games, and halftime shows for fall 2018.

PROJECTS

MODIFICATIONS TO XV6
Course/Personal Project
Modified the xv6 operating system to understand OS concepts and for personal curiosity; mouse driver, CPU scheduling, file systems, and signaling/process management

GERRYMENDER | CAPSTONE PROJECT, DB DESIGN, DATA MANAGEMENT
September-Decembe 2019 | Stony Brook, NY
Capstone Project for CS major aimed to fix political Gerrymandering; designed databases in MySQL; data preprocessing and maintenance through Python

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 e-commerce.

FES2 / SIMICS SIMULATIONS | RESEARCH PROJECT
May-December 2018 | Stony Brook, New York
Debugged the FeS2 simulator platform (in C/C++) platform to enable performance analysis on checkpoints of benchmark applications during billion-cycle experiments in the SIMICS simulator

HONORS/AWARDS

PERCUSSIONIST
2007-Present
- Bergen County High School Orchestra 2015, 2016 • Drum Line Section Leader (Snare), SBU, 2017-Present • Shirley Strum Kenny Founders Award, SBU, 2018

MARTIAL ARTIST
2002-Present
- 4th degree black belt, Tae-Kwon-Do, 2015 - Present • Tae-Kwon-Do Teacher, 2012 - 2017

INTERNATIONAL SYMPOSIUM ON COMPUTER ARCHITECTURE
Phoenix, AZ, 2019
- ISCA uArch Workshop attendee on awarded scholarship