

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

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

• \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-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, 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

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

MODIFICATIONS TO XV6

Course/Personal Project

Modified the xv6 operating system to understand OS concepts and for personal curiosity; mouse driver, CPU scheduling, filesystems, and signaling/process management

GERRYMENDER | CAPSTONE PROJECT, DB DESIGN AND DATA MANAGEMENT

September-December 2019 | Stony Brook, NY

Capstone Project for CS major aimed to fix political Gerrymandering; designed databases in MySQL; data preprocessing and maintenance through Python

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