

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

(Exp.) May 2021 | Stony Brook, NY

Clubs/Orgs:

Marching Band

Stony Brook Computing Society

Stony Brook Live

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

Software Engineering

GRADUATE

Data Science Fundamentals

Principles of Programming Languages

System Security

SKILLS

PROGRAMMING

Java • C • Python • Shell Scripting

• Fortran • C++ • SQL • HTML

• CSS • Javascript • \LaTeX

• MIPS Assembly

OPERATING SYSTEMS

Windows • *nix • OS X

TECHNOLOGIES

MySQL • Node.js • NumPy •

SciKit-Learn • Seaborn/data

visualization • Git • SQL Server •

Intel Pin

WORK EXPERIENCE

SBUHACKS PLANNING COMMITTEE | SOCIAL MEDIA MANAGER

March 2020-Present | Stony Brook, New York

- Keeping social media accounts up to date (Instagram, Twitter, Facebook, etc.) and otherwise helping organize the SBUHacks hackathon for the 2020 MLH season

PRIVATE TEACHER | PERCUSSION AND PROGRAMMING

May -August 2020 | Remote Teaching

- Remotely taught introductory programming and percussion at all skill levels. Primarily used Java for introductory programming.

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 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).

PROJECTS

TOPOLOGIC | LIBRARY TO SIMULATE DFAS | CO-DEVELOPER

June-August 2020

Created a multi-threaded library in C to simulate DFAs and Probabilistic DFAs using context switching. Comes with ability to switch between multithreading and sequential function ideas.

MODIFICATIONS TO XV6 | COURSE/PERSONAL PROJECT

September-December 2019 | Stony Brook, NY

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-December 2019 | Stony Brook, NY

Capstone Project for CS major aimed to fix political Gerrymandering; designed databases using MySQL; data pre-processing 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/SIMICS Simulator platform (C++) platform to analyze CPU performance on checkpoints of benchmark applications during billion-cycle experiments

HONORS/AWARDS

INTERNATIONAL SYMPOSIUM ON COMPUTER ARCHITECTURE

Phoenix, AZ, 2019

- ISCA uArch Workshop attendee on awarded scholarship