

# 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 •  $\text{\LaTeX}$

• MIPS Assembly

### OPERATING SYSTEMS

Windows • \*nix • OS X

### TECHNOLOGIES

MySQL • Node.js • NumPy •

SciKit-Learn • Seaborn/data

visualization • Git • SQL Server •

Intel PinTools

## 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 because of previous internship offer during COVID-19

### 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

### 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 in 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