

David Graff

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Education

Stony Brook University, Stony Brook NY
B.S. Computer Science

May 2020
GPA: 3.00/4

Work Experience

Student Assistant Coder at Stony Brook University

November 2018 – November 2019

- Transitioned websites from DreamHost to AWS and created supporting microservices to preserve past functionality
- Built, modified, and expanded applications with Node.JS, MySQL, and WebVR (A-Frame)
- Designed and explored custom made tools for students and faculty

Teaching Assistant for Introduction to OO Programming [Java]

December 2018 – May 2019

- Guided students through two lab sessions in addition to one-on-one office hours each week

Orientation Leader at Stony Brook University (Summer Seasonal)

April 2017 – August 2018

- Advised hundreds of incoming students through assistance to making their schedules, finding ways to get involved, etc.
 - Worked closely with 49 student leaders and department representatives to onboard incoming students
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Projects

Grade Guesser [Python]

- Compiled, parsed, and aggregated review data from over 40,000 class offerings to determine the objective difficulty of different courses, majors, and professors
- Led a team leveraging machine learning techniques to gauge predictability of reviews to grades, with 75% accuracy

Sf_malloc [C]

- Implemented a memory allocator to fit stringent requirements for as an assignment, received a score in the top 20%

A-Frame Websocket Component [Node.JS]

- Built and published in parallel with another A-Frame component to complete a fully functioning website
- Featured on A Week of A-Frame

Cooler Cubby – A Safe for Your Fridge [Arduino]

- Designed custom fit locks and lockers within a refrigerator controlled via passcode
- Won the best use of 3D printing at the InnovateIT Hackathon at Stony Brook University

Dungeons & Dragons Toolkit [Java/JavaFX]

- Created a suite of tools to manage teams of characters and complex situations such as battles and encounters
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Skills

Proficient: Python, C, Git, NetBeans, Microsoft Office

Comfortable: Java, JavaScript, MySQL, CSS, HTML

Familiar: Flask, MIPS

Relevant Coursework

System Fundamentals II [CSE 320]

Fall 2019

- C Programming and related topics such as memory management and multithreading/multiprocessing

Computer Science III [CSE 219]

Spring 2018

- Designing, coding, testing, and debugging Java programs of 1000-2000 lines

Analysis of Algorithms [CSE 373]

Spring 2018

- Mathematical analysis of algorithms, time and space complexity, NP-completeness

Principles of Database Systems [CSE 305]

Fall 2018

- Design and implementation of databases, ACID properties, normalization

Scripting Languages [CSE 337]

Fall 2018

- An introduction to multiple languages and frameworks including Python, Flask, Bash, and Perl
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Organizations & Extracurriculars

Academic Judiciary Council, *Member*

October 2017 – Present

Stony Brook Computing Society, *Member*

August 2017 – Present

Stony Brook Running Club, *Secretary (August 2018 – May 2019), Member*

August 2016 – Present

Alternative Spring Break Outreach (ASBO), *Member*

August 2016 – May 2019

Langmuir College Hall Council, *Member*

August 2016 – May 2018

Transfer Student Seminar (ADV 101), *Teaching Assistant*

August 2017 – December 2017

H-Quad Council, *Curriculum Coordinator*

December 2017 – May 2017