

# Scott Burgert

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## ACADEMICS:

**Stony Brook University:** Currently pursuing a bachelors in Computer Science and Applied Mathematics. GPA: 3.64

**Suffolk County Community College:** Made Deans List during transfer to SBU

## AWARDS AND AFFILIATIONS:

**Stony Brook University:**

- **Deans List:** Earned in 2020–2023
- **Computer Science Honors:** Enrolled in 2020
- **Funniest Hack Award at SBU Hacks:** Earned in 2022

**Suffolk County Community College Deans List:** Earned in 2020

## EXPERIENCE:

**Research And Development Internship, Kitware Inc.:** May 2023 – August 2023

Worked with researchers and industry experts to contribute to DARPA by making improvements to Danesfield, a tool that generates 3d representations of terrain from satellite imagery and segments buildings from terrain.

**Computer Vision Research Assistant, Stony Brook University NY:** January 2022 – August 2022

Collaborated with a team of researchers to design and implement a real time light field camera calibration algorithm for use in autonomous vehicles. This required knowledge in Computer Vision, C++, OpenCV and networking.

**Computer Vision R&D Internship, Kitware Inc.:** May 2021 – August 2021

Worked with researchers and industry leaders of Computer Vision to improve KWIVER, the industry standard toolkit for analysis of video and images, and TeleSculptor, a program that uses multiview geometry to generate a 3D representation of a landscape given aerial footage. This required knowledge of Computer Vision, software engineering concepts and C++.

**Programming Languages Research Assistant, Stony Brook University NY:** August 2018 – August 2021

Worked with professor Paul Fodor to port the Prolog XSB interpreter to Web Assembly, allowing students to run Prolog in their client instead of running on a server. This project requires knowledge in the Emscripten build system, networking, and compilers.

**Augmented Reality Research Assistant, Stony Brook University NY:** March 2020 – September 2021

Working with PhD student Mallesham Dasari, who is advised by Samir Das, the chairman of the graduate CS program in Stony Brook University, to develop new techniques in Augmented Reality user localization. This project requires knowledge in computer vision, computer graphics and machine learning.

**Applied Mathematics Research Assistant, Stony Brook University NY:** January 2021 – August 2021

Working with a team of PhD students and undergraduate researchers to find ways to significantly speed up the simulation of blood platelets with one of the most powerful supercomputers in the world. This research requires knowledge in machine learning, parallel computing, molecular dynamics and algorithms.

**Computer Science Teaching Assistant.:** August 2021 – December 2021

Helping to teach an introductory CS course by directing a lab required by the students taking it and grading assignments under the supervision of Paul Fodor. The course covers concepts such as object oriented programming, recursion and basic algorithms and implementation of those concepts with Java.

## PROFICIENCIES:

**Languages:** C++, Python, C#, Java, Javascript, Bash, Mathematica, Matlab, R, ML, CSS 3.0 and HTML 3.0, Prolog

**Tools and Libraries:** OpenCV, Numpy, Scipy, Unity3D, Unreal Engine, OpenGL, PyTorch, Scikit Image, Juce, Open Frameworks, Arduino, Android API, Node JS, JQuery, Socket.io, Emscripten, Web Assembly, KWIVER