

Collin Tod

COMPUTER SCIENCE STUDENT

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EDUCATION

Rochester Institute of Technology

BACHELOR DEGREE IN COMPUTER SCIENCE

Member of the RIT Honors Program, GPA: 3.88

Rochester, New York

2017 - 2022

WORK EXPERIENCE

Coding Tutor

ID TECH CAMP

Spent six weeks tutoring students how to program in various languages.

New Haven, Connecticut

July 2018 - August 2018

Editor & Cameraman

NEWTOWN BOARD OF EDUCATION

Filmed Board of Education meetings, city council meetings, and inter/intramural sports games. Edited resulting footage for later viewing.

Newtown, Connecticut

August 2013 - July 2017

PROJECTS

Clades Cīmicum

GITHUB.COM/SQUABLYSCIENTIST/CLADES-CIMICUM

Translates to: 'Bane of Bugs'. Rudimentary debugger that can read arbitrary memory from any process running on the current machine. Written in C

March 2018

Allocātor Parvulōrum

GITHUB.COM/SQUABLYSCIENTIST/ALLOCATOR-PARVULORUM

Custom memory allocator that prioritizes space efficiency over time efficiency, succeeds at keeping the heap as small as possible. Written in C.

July - August 2018

Kernel Convolver

GITHUB.COM/SQUABLYSCIENTIST/KERNEL_CONVOLVER

A custom kernel convolver written in python. Takes a tensor as a kernel and convolves it around another tensor generated from an input image, and then outputs the newly convolved image. Can be used to blur, sharpen, edge define, or perform other operations on images.

July - August 2018

SKILLS

LANGUAGES

- **PROFICIENT**

- Java
- Python
- Bash
- \LaTeX
- C

- **ACTIVELY LEARNING**

- HTML/CSS
- JavaScript

PROGRAMS / ENVIRONMENTS

- GNU/Linux and Unix-like systems
- JetBrains products
- Vim

EXTRACURRICULAR

2014-2017 **Co-Captain**, Newtown High School Debate Team

2015-2017 **Treasurer**, Newtown High School Technology Team

2018 **Publicist**, RIT AI Club

COURSES

2016 **CS50**, Harvard University

2017 **CSAPX**, RIT

2018 **Mech. of Programming**, RIT

VOLUNTEERING

2014-2017 **Cameraman/Editor**, Newtown Board of Ed

2014 **Video Creator**, Relay for Life