

EDUCATION

Middlebury College

Candidate for Bachelor of Arts, Computer Science and Mathematics.

Middlebury, VT

May 2020

GPA: 3.71

Activities: Computer Science Tutor (Data Structures, Math Foundations of Computing), Undergraduate Research Assistant, Programming Club, Research & Investment in Sustainable Equity (RISE).

Relevant Coursework: Machine Learning, Data Structures, Quantum Computing, Theory of Computation, Systems Programming, Math Foundations of Computing, Calculus II, Linear Algebra, Computer Architecture.

Joel Barlow High School

Diploma

Redding, CT

May 2016

GPA: 4.1; Top 5% of graduating class.

Honors: Commended National Merit Scholar, RIT Innovation and Creativity Award, AP Scholar with Distinction.

Activities: Debate Team (varsity); Philosophy Club (founder); FIRST Robotics Team (programmer).

Relevant Coursework: Database Development, Honors C++, AP Computer Science, AP Statistics, AP Calculus.

TECHNICAL SKILLS

Computer Programming: Python, Java, Go, C, C++, Objective C, Swift, MatLab, and Octave.

Website and Database Development: JavaScript, SQL, MySQL, PHP, HTML, CSS, and Apache.

Graphic Design: Adobe Photoshop, Illustrator, Dreamweaver, After Effects, Premier, and Flash.

WORK EXPERIENCE

Middlebury College

Research Assistant

Middlebury, VT

Summer 2018

- Programmed several applications for drone-based computer vision crowd behavior analysis.
- Implemented computer vision techniques such as optical flow (Python), face detection (Go), and object tracking.
- Programmed autonomous drone flight modes with a live video stream in C++, Go, Python, and Java.

DatePlay

iOS Application Developer

Brooklyn, NY

June 2017 – September 2017

- Implemented new app features outlined from Sketch mockups in Swift such as UI animations and profile screen.
- Worked closely with founders to brainstorm new app ideas.
- Merged code from developers working remotely into the master branch.
- Designed and programmed a new iOS app in Swift set to launch in 2019.

Easton-Redding Community Assets Task Force

Web Designer, Database Developer, Program Coordinator (www.scholarly.space)

Redding, CT

Spring 2016 – Fall 2016

- Updated the Region 9 Public School District Community Assets program by creating a database and portal for students and administrators to post assignments, view progress, and find assignment connections.
- Founded Scholarly Space, LLC and created the Scholarly Space website (an online interactive portfolio) as a solution for the redeveloped Community Assets program.

Student Employment Software

iOS Application Developer

Greenwich, CT

Summer 2015

- Programmed an iOS App for Student Employment Software to match students from nearby CT high schools (Stamford, Greenwich, Scarsdale, and Rye) with jobs, internships, and community service opportunities.
- Interfaced with company's SQL database & API to develop application.

Penguintosh

MacOS Application Developer (www.penguintosh.com)

Redding, CT

Calendar Year 2012

- Independently developed a Java-based MacOS application that allows users to install Linux onto a USB drive.
- Served more than 100,000 downloads of the application.