

# Connor Hanify

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## EDUCATION

### Middlebury College

Middlebury, VT

Major: Computer Science, Minor: Political Science

Expected Graduation Date: February 2019

Cumulative GPA: 3.54/4.00; Dean's List 2015, College Scholar 2016

Coding: C, Java, Javascript, React, familiar with HTML/CSS, Python, x86 and ARM32 assembly

Technologies/Environment: UNIX (Linux/FreeBSD), Wireshark, Netcat, Hexdump, GraphQL, Git, MariaDB (MySQL), GNU make

Selected Coursework: Data Structures, Algorithms and Complexity, Systems Programming, Networks, Systems Security, Operating Systems, Linear Algebra

Language Skills: Proficient in oral and written Spanish

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## WORK EXPERIENCE

### Kanaan Consulting, Inc.

Seattle, WA

*Software Development Intern* | React, React Native, Apollo GraphQL, MariaDB, Node.js, Webpack, Docker June – August, 2018

- Gained full-stack development experience working on web and mobile applications for a container truck appointment scheduling system
- Communicated effectively with engineering manager through daily meetings, code reviews, and source control usage

### Computer Science Department

Middlebury, VT

*Computer Science Tutor*

February 2017 – May 2018

- Selected by professors to tutor students taking Data Structures and Computer Architecture

### Seattle Cascades

Seattle, WA

*Marketing Intern*

June – August, 2017

- Designed a detailed sponsorship package and oversaw its distribution to other businesses
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## PROJECTS

### Endeavor – A Job Application Tracker | *ReactJS, Firebase*

- Built a web application to streamline and organize the job application process using React and firebase. Deployed the app on Heroku at <https://endeavorapp.herokuapp.com/>

### Systems Programming and Networks Projects | *C, Git, Arch Linux, FreeBSD, Wireshark, Netcat, make, gdb, gcc*

- Rewrote C standard I/O library to optimize for the inefficiencies of system calls
- Implemented a new system call and added it to the FreeBSD kernel
- Rewrote the Arch Linux run-time linker in C
- Implemented a TCP/IP and UDP networking stack in C to successfully route datagrams and packets

### Computer Security | *C, Wireshark, Netcat, Hexdump, gdb, make*

- Executed a buffer overflow attack on a vulnerable C program in a virtual machine running Arch Linux
- Exploited a (previously discovered) security vulnerability in Libpng and then successfully patched the buggy code
- Tested and exploited the OpenSSL Heartbleed vulnerability

### Personal Website | *ReactJS, Reactstrap, Styled-components*

- Created a personal website to learn new front-end technologies. Visit at <https://chanify.netlify.com>

### Data Structures Projects | *Java*

- Created a Java applet to simulate baseball games with random dice rolls
  - Built a post-fix calculator Java applet
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## LEADERSHIP EXPERIENCE

### Middle Endian Computer Science Club

Middlebury, VT

*Board Member*

September 2017 – May 2018

- Organized activities for the Middlebury computer science community, including Hackathons and technical workshops

### Computer Science Student Advisory Committee

Middlebury, VT

*Elected Member*

December 2016 – Present

- Assist in the evaluation of candidates for faculty positions in the computer science department

### Middlebury Men's Ultimate Frisbee Team

Middlebury, VT

*Elected Captain and President*

September 2017 – May 2018

- Organized practices, tournaments, and events for the Men's team during the Fall and Spring seasons and managed a budget of \$8,000