

Jonathan Elias Caicedo

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Residential Address

302 Derik Court
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Campus Address

277 Congress Street
Apartment 1A
Troy, New York 12180

Education

Rensselaer Polytechnic Institute - Troy, New York

Anticipated June 2019

Bachelor of Computer Science and Information Technology & Web Science
GPA - 3.26

Experience

Susquehanna International Group, LLP - Virtual Platforms Intern

June 2018 - August 2018

Bala Cynwyd, Pennsylvania

- Developed a suite of benchmarks for evaluating virtual machine performance across SIG's virtualization infrastructure and documented best practices to ensure accuracy and consistency
- Investigated and assisted on a project that would begin containerizing certain non-critical applications, while ensuring proper integration into existing infrastructure
- Added and enhanced functionality to internal monitoring tools, further recording VM and host health across the infrastructure

Capital Region Otolaryngology - Infrastructure and Systems Administrator

June 2017 - Present

Albany, New York

- Maintain entire IT infrastructure including workstations, networking equipment, and servers
- Perform security audits and penetration tests on infrastructure regularly to ensure data security and integrity in compliance with applicable laws
- Troubleshoot and address various client issues and concerns

CodeHS - Tutor

November 2015 - January 2018

- CodeHS tutors are mentors for CodeHS's userbase of students. As a tutor, I provide feedback and support students as they work on CodeHS's course materials, answer any questions they may have, and grade their exercises. In my time with CodeHS, I've also have had the opportunity to help create teaching resources to supplement CodeHS's portfolio of teaching materials, as well as contribute code to CodeHS's codebase.

Skills and Interests

Excellent: Go, Javascript, HTML, CSS/SASS, C, C++, Git

Proficient: Java, Python

Familiar: SQL, PHP, Ruby, R, Rust

Prior Exposure: Assembly/LLVM, Haskell, Erlang, Android, iOS

Interests and Hobbies: Cybersecurity, Containerization, DevOps, OpSec, Networking, Web Development, Flying, Photography, Amateur Radio

Operating Systems: macOS, Linux, BSD, Windows, Arduino

Frameworks: Node.js, Express.js, Angular.js, Vue.js Django, Meteor

Systems/Tools: Docker, Kubernetes, Nginx, Redis, MongoDB, Heroku

Organizations and Civic Engagement

- The Polytechnic** - Contributing Editor and Systems Coordinator Spring 2016 - Spring 2018
 - I assisted in publishing *The Polytechnic*, Rensselaer Polytechnic Institute's student newspaper, on a weekly basis. I was also responsible in helping develop and maintain numerous facets of *The Polytechnic's* systems and web infrastructure.
- Web Technologies Group** - Vice Chairman September 2016 - May 2018
 - I help develop, manage, and maintain numerous open-source web projects that help to better the college experience for students at Rensselaer Polytechnic Institute.
- HackRPI** - Organizer and Mentor November 2016 - 2017
 - I helped organize HackRPI, Rensselaer Polytechnic Institute's annual hackathon which attracts over 500 students from various institutions in the northeastern United States and beyond. During the hackathon, I was one of numerous mentors available to answer questions and provide programming help to hackers.
- RCOS (Rensselaer Center for Open Source)** - Mentor and Member September 2016 - Present
 - As a member of RCOS, I contribute to numerous open-source projects, many of which were created by other students, as well as developing and maintaining open-source projects of my own. RCOS provides a constructive and supportive environment that benefits my development and project skills.
- Coding&&Community** - Mentor and Member Spring 2018 - Present
 - Coding&&Community is an on-campus organization that teaches the fundamentals of computer science to middle and high school students in New York State's Science and Technology Entry Program, the majority of whom come from historically underrepresented groups in STEM. As a mentor, I participate in hosted workshops, working with students to explore computer science with numerous activities, such as designing a basic website using HTML and CSS, making a calculator in Python, or making basic games using Java.

Recognition and Awards

- Rensselaer Leadership Award**
 - Given by Rensselaer Polytechnic Institute in recognition of an outstanding record of academic and personal achievements, a strong commitment to excellence, and illustration of intellectual curiosity.
- Rensselaer Dean's Honor List** Spring 2016 - 2017, Fall 2017
 - The Dean's Honor List recognizes students who have attained a grade point average of 3.50 or better, and have no grade below C for the semester.