

# Andrei Tumber

## Contact

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## Programming Languages

C, Python, Cython,  
Java, C++ JavaScript,  
CSS, HTML, Typescript  
AJAX,  $\LaTeX$

## Technologies

Linux admin – cgroups  
namespacing, SSL,  
SSH, libarchive, kernel,  
Xorg, nginx  
Database –  
PostgreSQL  
Webframeworks –  
Django, Google API  
Cloud-computing –  
Amazon AWS EC2

## Work Experience

- |            |  |                  |
|------------|--|------------------|
| 2018, 2019 | <b>Cornell University</b><br><i>Programmer</i><br>Implemented statistical model front-ends in Mathematica and Python.<br>(letter of recommendation available upon request).              | Ithaca, New York |
| Jun-2019   | <b>Treman State Park</b><br><i>Maintenance</i><br>Maintained Park facilities and trails. Worked independently supervising on other persons.  | Ithaca, New York |
| Jun-2018   | <b>Ithaca Streets and Facilities</b><br><i>Building maintenance assistant</i><br>Assisted with basic maintenance work including plumbing, HVAC, fire alarms, electrical, carpentry work. | Ithaca, New York |

## Education

- |           |  |                                   |
|-----------|--|-----------------------------------|
| 2019–now  | <b>BS candidate</b> in Computer Engineering (3.91 GPA) – May 2023  |                                   |
|           | <ul style="list-style-type: none"><li>• Computer Science II</li><li>• Digital System Design I</li><li>• Calculus I-IV, Uni-Phys I-II</li><li>• Discrete Math &amp; Linear Algebra</li><li>• Circuits I</li></ul> |                                   |
|           |  | Rochester Institute of Technology |
| 2015–2019 | <b>Diploma</b> Ithaca High School  | IHS                               |

## Projects

- |          |   |  |
|----------|---|--|
| 2014-now | <b>AutoGentoo</b><br>A scalable Linux environment manager for creating optimized Gentoo Linux environments. Designed to bring higher performance to any platform (embedded or desktop) at low maintenance cost. TCP over TLS for cross domain management. Linux namespacing and cgroups for environment isolation. Django-based front-end ( <a href="http://autogentoo.org">autogentoo.org</a> ).<br><a href="#">Github</a> | <a href="http://github.com">github.com</a> |
| 2019-now | <b>CPortage</b><br>A highly optimized rewrite of Gentoo's package manager. Optimized I/O and dynamic dependency calculations as well as a faster language parser. <a href="#">Github</a>  | <a href="http://github.com">github.com</a> |
| Jun-2019 | <b>Raspberry Pi Quadcopter</b><br>3D printed quad-copter with a Raspberry Pi control. Implemented PID control for closed-loop stabilization. <a href="#">Github</a>   | Ithaca High School                         |

## Achievements

### Technology Bowl 1<sup>st</sup> place

2018 TSA national competition – Atlanta Georgia

Technology Student Association team competition. Teams compete to test their knowledge across multiple STEM subjects (Computer Science, Biology, Chemistry, Physics, Engineering)

### Website Design 5<sup>th</sup> place

2018 TSA national competition – Atlanta Georgia

Website front-end design as a team. Worked on CSS and Javascript frameworks as well as 3D graphics.

### Engineering Dean's List

Rochester Institute of Technology

Maintained a GPA of **3.5** or higher.

## General Interests

### Linux and Open-Source

Love open-source and linux because of freedom, design, and customizability.

### C

Networking, thread schedulers, grammar parsers, advanced data structures, tree recursion. Around 3+ years of experience.

### Python

I/O scripts, complex string parsers, and polymorphic GUI design. Web frameworks like Django. Around 6+ years of experience.

## Skills

### Time Management skills

Able to keep up with an 18 credit semester and have time to work on personal projects.

### Programming Ability

Advanced programming skills in C and Python. Profficient in Java and C++.

### Quick Learning Capability

Able to learn new APIs and programming languages with ease.

### Teamwork Skills

Competed in Engineering and Computer Science competitions at the national level very successfully in multiple teams.