Andrei Tumbar

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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	**Cornell University**	Ithaca, New York

Programmer
Implemented statistical model front-ends in Mathematica and Python.
(letter of recommendation available upon request).

Jun-2019	**Treman State Park**	Ithaca, New York

Maintenance
Maintained Park facilities and trails. Worked independently supervising on other persons.

Jun-2018	**Ithaca Streets and Facilities**	Ithaca, New York

Building maintenance assistant
Assisted with basic maintenance work including plumbing, HVAC, fire alarms, electrical, carpentry work.

Education

2019–now **BS candidate** in Computer Engineering (3.91 GPA) – May 2023

- **Computer Science II**
- **Digital System Design I**
- **Calculus I-IV, Uni-Phys I-II**
- **Discrete Math & Linear Algebra**
- **Circuits I**

Rochester Institute of Technology

2015–2019 **Diploma** Ithaca High School IHS

Projects

2014-now **AutoGentoo** github.com
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 (**autogentoo.org**).
https://github.com/AutoGentoo/AutoGentoo

2019-now **CPortage** github.com
A highly optimized rewrite of Gentoo's package manager. Optimized I/O and dynamic dependency calculations as well as a faster language parser.
https://github.com/AutoGentoo/AutoGentoo/tree/develop/cportage

Jun-2019 **Raspberry Pi Quadcopter** Ithaca High School
3D printed quad-copter with a Raspberry Pi control. Implemented PID control for closed-loop stabilization. **https://github.com/Kronos3/Quadcopter**

Achievements

Technology Bowl 1st 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 5th 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.