

# Charlton Trezevant



Developer, Consultant

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github.com/ctrezevant

## EXPERIENCE

### CoAdvantage, Tampa — *Junior Developer*

July - August 2015

Single-handedly migrated, re-architected, and deployed a business critical payroll management application for CoAdvantage, the 6th largest HR outsourcing company in the US.

*Technologies: Red Hat Enterprise Linux, Windows Server, IIS, Microsoft SQL Server, MySQL, Apache, LDAP, PHP, Yii Framework, Chart.js*

### Lomax Magnet School, Tampa — *Systems Administrator*

September 2014 - October 2015

Following district budget and personnel cuts, I volunteered to fill the role of an on-site systems administrator and support technician at Lomax Magnet School. While there, I managed a fleet of nearly 300 public workstations, laptops, and personal devices, and developed custom tooling (such as an incident reporting and ticketing system).

*Technologies: Windows Server 2008 and 2012, Altiris, System Imaging via PXE, Windows 7 and 10 Enterprise Edition, Various educational software packages*

### N3XTWORK, LLC, Tampa — *Developer, Security Consultant*

May 2018, Ongoing

## EDUCATION

### University of Central Florida, Orlando — *Computer Science*

2017 - 2021, Ongoing

### H.B. Plant High School, Tampa

2014 - 2017

## EXTRACURRICULAR

### Collegiate Cyber Defense Club @ UCF — *Operations Team, Vice President*

2017 - Ongoing

### UCF Collegiate Cyber Defense Competition (CCDC) Team

2017 - Ongoing

### UCF Collegiate Penetration Testing Competition (CPTC) Team

2017 - Ongoing

## SKILLS

I have many years of experience administering Linux and other Unix-like systems. I have experience with a wide variety of industry-standard languages, software stacks, and technologies. I can easily learn and adapt to new technologies at a fast pace and enjoy doing so.

I'm passionate about learning new skills, and sharing what I've learned with others. I enjoy working collaboratively and love to teach, so I volunteer often as a mentor at hackathons and workshops.

## AWARDS

**First Place** at the 2018 Eastern Collegiate Penetration Testing Competition

**First Place** at the 2018 SECCDC regional competition, both overall and in each scored subcategory, as a member of the UCF CCDC team

**Second Place** at the 2018 NCCDC competition, as a member of the UCF CCDC team

**Second Place** in the Symantec Higher Ed Cyber Challenge 2017, as a member of the UCF Knightsec team

**Third Place** at RIT's 2018 ISTS

## PROJECTS

### **PyEdsby** — *Unofficial API Wrapper for the Edsby SIS*

Late 2017 - [github.com/ctrezevant/PyEdsby](https://github.com/ctrezevant/PyEdsby)

I built an extensive client library for the Edsby platform, a Student Information System (SIS) used by my district to centralize information about grades, attendance, and so on. I was disappointed to discover that Edsby didn't have a documented API available for use, so I set about reverse-engineering the client web application. Eventually, I compiled an intimate knowledge of its workings, allowing me to build a fully-featured client library in Python.

The work I did on PyEdsby enabled myself and others to build impressive applications which interfaced with the Edsby platform, and open sourcing my library took this even further. Over the span of the project numerous others used PyEdsby in their applications, and contributed heavily to its development. My work also earned accolades from the CoreFour development team (which built Edsby), inspiring them to both stage an official API for inclusion in later releases and explore the creation of a student developer outreach initiative.

Additionally, PyEdsby enabled me to perform a security audit of the web application, in which I found an attack vector that exposed a persistent cross-site scripting vulnerability. I presented this information along with a proof-of-concept to CoreFour, who patched it immediately.

### **doorMan** — *A Smart, Connected Garage Door Controller*

Mid 2016 – [github.com/ctrezevant/doorMan](https://github.com/ctrezevant/doorMan)

DoorMan is a hobby smart garage door controller that combines a number of personal interests of mine: Embedded systems, API design, and smart home devices. At the core of the project is an API server, which handles key provisioning, reports the state of the door, and controls the lift. The truly fun part for me was writing the client applications- Using a library I developed in tandem with the API server, I was easily able to create a suite of other apps to control my door, including a web interface, Alexa skill, Twitter bot, command line utility, Pebble watch app, and compatibility layer for Apple's HomeKit platform.

### **speedRacer** — *Open-Source, Educational Racetrack Controller*

Late 2017 - [github.com/ctrezevant/speedRacer](https://github.com/ctrezevant/speedRacer)

SpeedRacer is a smart Pinewood Derby track controller- a side project of mine I had developed for use in the curriculum of my High School Principles of Technology class, and later for the entire school district. Using my software and schematics, schools across Hillsborough county were able to cheaply and easily build their own pinewood derby tracks, serving their needs without having to buy an expensive off-the-shelf track controller. Not only this, speedRacer improved upon the basic functionality of a track controller by adding modern features such as a wireless scoreboard interface, allowing race data to be easily viewed and managed from a device's internet browser.

If desired, letters of recommendation and other references can be found at [www.ctis.me/portfolio/references](http://www.ctis.me/portfolio/references)

competition, as a member of the UCF Knightsec team

**Authored an article** on web crawling for 2600 Magazine, published in Vol. 33 Issue 1

**Department of Education Outstanding Volunteer of the Year, 2015-2016**

## LANGUAGES

Go, Python, JavaScript (In browsers and with Node.js), Java, Ruby, PHP, C, SQL, HTML5/CSS3, Bash, Batch, others

## TECHNOLOGIES

**Linux/UNIX** from embedded devices to servers, including most variants (especially in the Debian family). I'm a strong proponent of Linux's open design and flexibility

**Web Servers** including Nginx, Apache, and Lighttpd, including intimate familiarity with configuration and performance tuning

**Other Servers** such as Postfix, DNSMasq/Bind, OpenVPN, and a variety of others

**Databases** such as MySQL and Sqlite to NoSQL databases like MongoDB

**Cloud Platforms** including Amazon Web Services, Google Cloud Platform, and Digital Ocean

**Version Control** I love the Git version control system! I often give workshops and classes on Git to UCF students.

**Embedded Systems** are a hobby, ranging from single board computers and Arduino to reverse engineering e-readers