Charlton Trezevant

Developer, Security Consultant

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EXPERIENCE

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

May 2018, Ongoing

Developed a portfolio of proprietary security technologies to support the ongoing research and development of N3xtwork's commercial products.

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, completing 138 volunteer service hours in the process. 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

EDUCATION

University of Central Florida, Orlando — *Computer Science*

2017 - Present

H.B. Plant High School, Tampa

2014 - 2017

EXTRACURRICULAR

Collegiate Cyber Defense Club @ UCF (Hack@UCF) — *President*

2019, Ongoing

Collegiate Cyber Defense Club @ UCF (Hack@UCF) — *Vice President*

2017 - 2018

UCF Collegiate Cyber Defense Competition (CCDC) Team

2017, Ongoing

SKILLS

I have many years of experience managing Linux and other Unix-like systems, as well as a wide variety of industry-standard software, languages, and technologies. I can easily learn and adapt at a fast pace (and enjoy doing so!)

I'm passionate about learning new skills and sharing what I know with others. I enjoy working collaboratively and love to teach, so I volunteer often as a mentor at hackathons, run workshops, and tutor people one-on-one.

AWARDS

First Place at the 2018 Eastern Regional Collegiate Penetration Testing Competition

First Place at the 2018 and 2019 SECCDC regional competitions. First place in 3/3 (2018) and 2/3 (2019) scored subcategories, as a member of the UCF CCDC team

First Place at the University of Buffalo's 2018 Lockdown competition

Second Place at the 2018 and 2019 NCCDC competitions, as a member of the UCF CCDC team

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

UCF Collegiate Penetration Testing Competition (CPTC) Team

2017, Ongoing

PROJECTS

PyEdsby — *An Unofficial Open-Source API Wrapper for the Edsby SIS*

Late 2017 - github.com/ctrezevant/PyEdsby

I built an extensive client library for the Edsby platform, a Student Information System (SIS) used by my school 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 of my own 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 (the company behind Edsby), inspiring them to both stage an official API for inclusion in later releases and explore the creation of a student developer outreach initiative.

PyEdsby enabled me to perform a security audit of the web application, leading me to the discovery of a stored cross-site scripting vulnerability. I presented this information along with a proof-of-concept to CoreFour, who patched it immediately.

doorMan — *An Open-Source, Connected Garage Door Controller*

Mid 2016 – 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

SpeedRacer is a smart Pinewood Derby track controller- a side project that 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 wirelessly accessible scoreboard interface, which allows race data to be easily viewed and managed from any device's Internet browser.

For additional references and letters of recommendation, visit ctis.me/refs

Third Place at the 2018 National CPTC competition, as a member of the UCF CPTC team

Third Place at RIT's 2018 ISTS competition, as a member of the UCF Knightsec team

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

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

Dean's List, UCF CECS Fall 2017

LANGUAGES

Go, Python, C, Java, JavaScript, PHP, SQL, HTML5/CSS3, Bash, Batch, various others

TECHNOLOGIES

Linux/UNIX, especially variants in the Debian family. I'm a strong proponent of Linux's open design and flexibility

Web Servers including Nginx, Apache, and Lighttpd. Intimate familiarity with configuration and performance tuning

Databases such as MySQL, Sqlite, and MongoDB

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

Version Control I love Git! I often give workshops and classes on it to UCF students

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