# Trey Merkley

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## Professional Summary

OSU Okmulgee honors graduate looking for a full time developer role. I am a fast learner, perform excellently under pressure, and look forward to taking on new challenges in a fast paced company.

## Highlights

*Programming Languages*

C#, HTML/CSS, , Python, SQL (SQL Server and MySQL dialects), PHP, Java, JavaScript, Ruby, Lua, Grok

*Tools*

Bash, GIMP, Git, GitHub, Active Directory, Windows Server, ConnectWise TMS, Printer Installation, Hardware and Software Troubleshooting, Network Administration, Elastic Stack

*Development Environments*

Command-Line Interfaces, Emacs, Linux (Arch, Debian/Ubuntu), Visual Studio (Suite and Code)

## Skills

*Technical*

* C#
  + .NET, Core, Framework, and Mono
  + Complex GUI applications using Visual Studio 2010-2017
  + ADO.NET apps for server access and data manipulation
* Java
  + Used Android Studio 2015 to develop Android applications
* Python
  + Graphical wrappers for command line packages and Python-based APIs using Qt5 via PyQt5/PySide2
  + Pandas and MatPlotLib
* SQL
  + Manipulated SQL Server and MariaDB
  + graphical frontend and terminal

***Other***

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| --- | --- |
| • fast learner | • perform exceptionally under pressure |
| • goal oriented | • prioritize tasks effectively |
| • stays organized | • work well with a team |
| • accountable | • solve problems creatively |
| • committed to optimization | • effective communicator |
| • analytical | • passionate about software |

## Experience

*Work*

* Global Service Desk Engineer I - True Digital Security
  + I am the first line of support for our clients from across the country. I provide them with Tier I and Tier II technical support, addressing a wide range of issues such as maintaining security and credentials, diagnosing and resolving problems with business applications, AWS virtual workstations, troubleshooting hardware failures.
  + I develop Grok queries and Python scripts to parse log data and work closely with the DevOps team to provide world-class data analysis and visualization to our clients along with excellent customer service.
* Intern - The Blyth Institute
  + I applied the concept of Generalized Information, developed at The Blyth Institute, to practical problems in machine learning, including identifying potential datasets to utilize for testing, identifying the machine learning platforms/algorithms to use for testing, working with the institute to establish active information measurement methodologies within those platforms and algorithms, working with the institute to establish a methodology of model size assignment within those platforms and algorithms, and testing machine learning models in Ruby to determine if Generalized Information is able to successfully identify valid models.
* Computer Technician - Oklahoma State University Institute of Technology
  + I was the primary IT technician for the student body of OSUIT. I analyzed, troubleshooted, and implemented solutions to maintain an extensive, school-wide network and provide on-site troubleshooting for hundreds of students and faculty members campus-wide.

*Projects*

* I actively contribute to/mantain multiple software projects, including:
  + renpy-mode (Elisp)
* Syntax highlighting framework on Emacs for the Ren’Py game engine. I am currently the sole maintainer for the renpy-mode software.
  + codefortulsa/clear-my-record (JavaScript)
* Client-side app for the Code for Tulsa civic action nonprofit to automate the process of clearing the criminal records of applicable people. I fleshed out the form with extra fields and implemented professional document formatting to the resulting form.
  + microsoft/msbuild (C#)
* The C# compiler. I added more information to multiple error messages and provided repository maintenance.
  + openmw-nif-cleaner (Python)
* Project to provide an easy-to-use, automated method of porting texture files from the archaic Gamebryo engine to the modern OpenMW engine. I wrote the GUI and tied it to the backend, as well as refactored and optimized the code for the backend.
* I currently work on a few different hobby network administration projects, including:
  + File servers
  + Home theater PCs
  + Linux workstations

## Education

August 2019

**B. Tech, Information Technology**; Oklahoma State University Institute of Technology **Summa Cum Laude; GPA: 3.3**

December 2017

**AS, Computer Science**; Oklahoma State University Institute of Technology **Magna Cum Laude; GPA: 3.5**