# 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

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| ***Programming Languages*** | C#, HTML/CSS, LaTeX, 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

- fast learner
- goal oriented
- stays organized
- accountable
- committed to optimization
- analytical

- perform exceptionally under pressure
- prioritize tasks effectively
- work well with a team
- solve problems creatively
- effective communicator
- 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

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| **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** |