TANNER FRY

INFO

Phone

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Email

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GitHub

https://tannerfry.github.io/

LinkedIn

linkedin.com/in/tannerfry12

SKILLS

Programming:

- Python
- C/C++
- JavaScript
- HTML/CSS
- PHP
- VHDL
- MIPS Assembly
- SIMD
- VBA

Databases:

- MySQL
- sqlite3
- MongoDB

Technical Skills:

- Software Engineering
- Machine Learning
- Deep Learning
- Big Data Management
- Version Control (e.g., Git)
- Algorithm Development
- Algorithm Optimization
- Database Design
- Object-Oriented Design
- Debugging

Soft Skills:

- Creativity
- Adaptability
- Communication
- Teamwork
- Problem Solving
- Leadership
- Attention to Detail

PROFILE

A highly motivated computer engineer seeking to fill a position where I can utilize my experience in software engineering and data science to build innovative and cutting edge applications.

EDUCATION

University of Tennessee

Aug 2016 - May 2021

M.S. in Computer Engineering B.S. in Computer Engineering

EMPLOYEMENT HISTORY

Chemical and Biomolecular Software Engineer, University of Tennessee

May 2019 - Current

- Lead software engineer for the CASPER project a software used for enhanced guide-RNA design and targeting analysis.
- Developed in Python, C++, sqlite3, and PyQt5.
- Developed / Optimized CASPER and existing bioinformatic tools.
- Increased CASPER's overall speed by 217% and reduced memory usage by 85%.
- Increased Sequence Finder speed by 175% and reduced memory usage by 73%.
- Packaged and deployed CASPER on multiple operating systems including Windows 10, MacOS, and Ubuntu 18.04.
- Assisted in UI development.

Graduate Teaching Assistant, University of Tennessee

Jan 2021 - May 2021

- Graduate teaching assistant for CS130 Computer Organization.
- Taught and demonstrated projects developed in C, C++, MIPS assembly, and Logisim (circuit design).
- Graded and debugged student submitted code / circuit designs.

Computer Science Research Assistance, University of Tennessee

Dec 2019 - Jun 2020

- Research assistant focused on data science related to Git.
- Analyzed performances of existing machine learning models.
- Updated existing machine learning model to analyze new Git related data.
- Co-author of a published research paper focused on *Identity Resolution of 38* million Author IDs extracted from 2B Git Commits:
 doi.org/10.1145/3379597.3387500

Knoxville, TN

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Knoxville, TN

Knoxville, TN

OIT Student Computer Support, University of Tennessee

Knoxville, TN

Aug 2018 - Dec 2020

- Performed software and hardware troubleshooting.
- Executed successful malware removals for various systems.
- Performed both single and dual operating system installations.

Cyber Security Analyst Intern, Le Bonheur Healthcare

Memphis, TN

June 2018 - Aug 2018

- Monitored the network for malicious activities.
- Automated the risk management reporting system by setting up a data pipeline for transforming risk analysis results into high-level summary reports.

IT Technician, Dyersburg, TN

Tencom Technologies and Web Services

May 2017 - Aug 2017

- Responsible for hardware and software troubleshooting.
- Developed a new temperature sensor product for a server room.
 - Developed using Python and a Raspberry Pi with external sensors for temperature and humidity monitoring.
 - Designed to automatically notify the client of any spikes in temperature or humidity that could impact performance of the servers.
- Developed a surveillance monitoring system for the business using Raspberry Pi's.