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Trevor Rice

Skills & Abilities/Tools familiar with

- General purpose languages:
  - Java, Python, C#.
- Web frameworks/languages
  - JavaScript, React, VueJS, NodeJS, ExpressJS, PHP, Django.
- Databases:
  - MySQL (proficient), MongoDB (proficient), PostgreSQL (familiar)
- REST API design.
- Docker containerization
- Experience with Linux, Mac OS, and Windows Operating Systems.
- Object-oriented programming and design (OOP OOD)

- GPU computing on Parallel Architectures
- Nginx web server setup and management.
- Project Management, Quality Assurance
- Android App Development
- Algorithm Analysis, Operating Systems, Data Structures
- 3D Modeling, Game design
- Git/GitHub and Continuous Integration
- Automated Testing
- Artificial Intelligence/Machine Learning

Education

Bachelor's in computer science (General Concentration) at Eastern Kentucky University (Richmond, Kentucky). Graduated with a GPA of 3.85.

Experience

CSC Tutor at Eastern Kentucky University, Richmond, KY (August 2018 - December 2020)

Employed as a general Computer Science tutor at Eastern Kentucky University from August 2018 - present. Assist other Computer Science students with anything they may need help with, such as, homework, projects, or re-explanation of lecture topics. Mainly assist with lower-level programming courses and discrete math. Helped students understand problems by slowly walking through examples. Created and managed a tutoring server for remote tutoring during the 2020-2021 pandemic. Classes tutored: CSC 190/191 Intro to Object Oriented Programming, CSC 195 Discrete Structures, CSC 313 Database Design, CSC 310 Data Structures, CSC 311 Algorithms 1, CSC 320 Algorithms 2, CSC 340/440/541 Software Design and testing, and CSC 308/309 Mobile App Development.

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Machine Learning and Deep Learning (*MLDL) Lab Member at Eastern Kentucky University, Richmond KY (January 2019 – present)***

Collaborated as a member of the MLDL lab at Eastern Kentucky University. Currently working on a project: GPU-accelerated Malicious Domain Detection, developing Malicious Domain Detection tool using the parallel computing platform CUDA. Designed and implemented a piece of graphical software in Python 3 that allows for determining if a domain is malicious or not. The software utilizes the CUDA API 'PyCuda' to assign each thread on a Nvidia GPU TITAN XP a copy of a kernel, or function, written in C that compares the possibly malicious domain against the existing database of domains to find a match, signifying its maliciousness.

Achievements

- Competed in the annual ACM Programming Competition and placed 3rd in the region.
- Inducted into the Beta Chapter of Kentucky, Upsilon Pi Epsilon for computer science for excelling in the computer science program.
- Had an MLDL Lab project demonstration (Malicious Domain Detection Using GPU), Computer Science Advisory Board Member Meeting, EKU, Keen Johnson Ballroom, October 30, 2019.

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References

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