Joseph Tanner Fox

josephtfox@gmail.com | (859)-576-6766 | www.linkedin.com/in/josephtannerfox | github.com/josephtfox

EDUCATION

Master of Science in Computer Science, Georgia Institute of Technology

2023 – Current

• Coursework: Information Security, Computer Networks, Video Game Design and Programming

Bachelor of Science in Information Communication Technology, *University of Kentucky*

2019 - 2022

• Coursework: System Analysis, Intro to Program Design, Information Architecture, Semantic Web Development, Linux System Administration

PROFESSIONAL EXPERIENCE

Software Engineer, Booz Allen Hamilton

February 2023 – Current

Army- DEMSHORAD, IFPC

- Collaborated with a cross-functional team of engineers to optimize an existing data analytics suite using statistical
 analysis methods to visualize trends of the overall system through Python Pandas, NumPy, Matplotlib and
 Seaborn.
- Designed and implemented a full stack analytics application, integrating front-end and back-end technologies to ensure seamless user experience and data flow.
- Constructed a dynamic SQLite database utilizing Python integration, enabling seamless data storage, retrieval, and manipulation for versatile analysis and visualization options, leading to increased flexibility in adapting to changing data requirements.
- Employed proto messages and Google's Protocol Buffers (protobuf) to establish a robust and standardized approach for data serialization and transmission.
- Spearheaded front-end development using Glade and GTK's robust framework to implement dynamic UI elements, interactive widgets, responsive layouts, resulting in an engaging user journey and enhanced usability.
- Utilized agile methodologies to iterate quickly on software development, conducting regular code reviews and contributing to continuous integration and continuous deployment (CI/CD) pipelines for streamlined development workflows.

National Science Foundation – ITSIS, ITMAS

- Implemented and configured Jenkins pipelines, automating the development lifecycle, from code integration to deployment and delivery for NSF applications.
- Demonstrated strong troubleshooting skills, identifying, and resolving issues in the development and production environments to optimize the pipelines for efficiency and reliability.
- Developed an automated Jenkins pipeline to execute Python scripts, leveraging APIs from the Atlassian suite of tools for service validation across different instances.
- Deployed applications using Docker and Kubernetes, optimizing resource utilization, and enhancing scalability.
- Managed NSF cloud infrastructure on AWS, leveraging services such as EC2, S3, RDA and Lambda to optimize resource allocation.

Solutions and Services Engineering Intern, Badger Technologies

September 2022 – February 2023

- Remotely monitored and corrected issues with robots in grocery stores internationally using proprietary cloud-based virtual reality remote control tools.
- Employed Jira and Confluence to track repetitive hardware and software bugs for improvement on documentation and further the robotic design process.

SKILLS & OTHER

Core: Python C++, C#, SQL, HTML/CSS, JavaScript

Additional: Pandas, NumPy, Seaborn, GTK, Wireshark, Git, Docker, Jenkins, AWS, Vue.js, Tailwind, FastAPI

Security Clearance: Active Secret Clearance, NSF Public Trust