Jason Hertzog

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PERSONAL STATEMENT

Computer Science Master's student with professional software development experience seeking AI and software roles as I leverage my education to continue expanding my technical skills. I have a particular interest in simulation and artificial intelligence engineering because my passion for tech began from creating simulations and small games in high school.

EDUCATION

Georgia Institute of Technology, Atlanta, GA   August 2024 – Present
Master of Science in Computer Science
Valdosta State University, Valdosta, GA   August 2021 – July 2024
Bachelor of Science in Computer Science, GPA: 3.77

WORK EXPERIENCE

ECG, Inc., Valdosta, GA – *Software Engineer*   July 2022 – February 2024
- Automated the migration of 43,000 devices between enterprise systems, saving over 700 hours of manual work and enabling a more robust, secure system.
- Designed and implemented an auto-scrolling task log box for our Alpaca web interface that pulled data from running tasks and color coded the data depending on its type. Included options for freezing the scroll functionality, downloading the log after completion, and jumping to the top or bottom.
- Proactively searched for issues, created tickets, and implemented patches for issues such as: unsanitized login input, incorrect procedure ordering for some tasks, typos, redundant variable usage, inefficient and unnecessary double searches in our database, redundant logging, and missing null checks.
- Maintained official Alpaca documentation for each update. Documentation included examples, organized tables, and downloadable templates that were both empty and populated with example data.

ECG, Inc., Valdosta, GA — *Associate Member of Technical Staff*   February 2024 – Present
- Designed, implemented, documented, trained others on, and delivered a network saturation testing solution accommodating different user scenarios. Up to 2000 concurrent calls were tested for bidirectional RTP, jitter, packet loss, max delta, inter-data center testing, and data center to data center testing. The findings led the client to upgrade the server capacity, revisit the RTP port configuration, and migrate servers entirely. I created all the scripts and led all the training sessions related to this project.
- Created a golden image configuration for Asterisk PBX that was used in training for a top 10 U.S. telecommunication company. The golden image saved 8 hours of configuration and installations for each device.
- Installed network taps and created a technical report on device capabilities.

RELEVANT TECHNICAL SKILLS

Machine Learning & AI- Reinforcement Learning, Supervised & Unsupervised Learning, Fuzzy Logic, Game AI, multi-agent systems and collaborative learning
Computing Languages and Technologies – Unity, Python, C#, TypeScript, Angular, Bash, Git, Java, XML, JSON, CSS, HTML
Database & Cloud Technologies - AWS (EC2), Oracle Enterprise Linux, MySQL
Networking & System Administration – Asterisk PBX, Linux (Oracle), VMware vSphere, Network Traffic Analysis, IP Allocation, VLAN Configuration, Session Border Controller configuration

LEADERSHIP AND COMMUNITY ENGAGEMENT

Association for Computing Machinery, Valdosta State University, Valdosta, GA – *President*   May 2023 – May 2024
- Organized and led group game development from conception to completion to build skills of ACM members
- Organized events for up to 25 members that included code-cracking, artificial intelligence, and leetcode-like problems.
- Organized multiple professor-led expert discussions on their tech fields and experiences.

GitHub Campus Expert, Valdosta, GA – *Volunteer*   August 2023 – May 2024
- Enhanced student experience by creating documentation on using Git, GitHub, and GitHub for Unity. Provided this documentation to professors and students directly to reduce the learning curve many students experience.
- Provided free tutoring on using git and GitHub, including conflict resolution and utilizing the GitHub Cheat sheet. I met with over 40 students over the course of my senior year in group and one-on-one sessions for Git and GitHub tutoring.
- Became the first GitHub Campus Expert at Valdosta State University and mentored the expert that came after me.