Tyran Rice Jr.

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PROFESSIONAL SUMMARY

Software Engineer and Game Developer with a strong background in AI, full-stack development, and gamification. Graduate of the University of Delaware (B.S. Computer Science, Math minor, GPA 3.5) with proven leadership as a Resident Assistant, Game Development Club president, and esports team leader. Recognized for innovation through hackathons and game jams, earning $2K+ in awards. Known for a relentless drive, creative problem-solving, and effective collaboration, with a passion for building impactful, forward-looking technology.

SKILLS, CERTIFICATES & AWARDS

- **Software/Programs:** Github, Git, RStudio, AWS, Firebase, Linux, .Net
- **Languages**: Python, Java, C/C++/C#, Shell Scripting, R
- **Soft/Hard Skills:** Artificial Intelligence, Machine Learning, System Administration, Operating Systems, Data Structures, Agile/Scrum Experience, Code Reviews, Leadership Experience, Problem Solving, Critical Thinking, DevOps, Adaptability, Creativity, Study Abroad Experience
- **Certificates:** Certified ScrumMaster (Scrum Alliance), Supervised Machine Learning (DeepLearning.AI), Java Basic (HackerRank), Responsive Web Design (freeCodeCamp), Competency in AI Promoting Essentials (CompTIA).
- **Awards:** $1600 1st Place Award Hosted By The University Of Delaware's 2023 Hackathon, $500 Best Women Leadership 2024 Game Award Hosted By The University Of Delaware & Funded By The National Science Foundation, Won Best Use Of Outside Editorial Resource At The 2025 Datafest Hosted By The University Of Del.

RELEVANT PROJECTS

Post-Pandemic Office Spaces: Hackathon Project   May 2025 - May 2025
Software Developer & Data Analyzer
- Engineered a data-driven presentation leveraging a 10,000+ row dataset from Savills and supplemental labor market data from the U.S. Bureau of Labor Statistics.
- Applied statistical analysis and advanced data visualization (Python, Pandas, Matplotlib) to uncover actionable insights on post-pandemic workplace utilization trends.
- Delivered a compelling pitch that earned *"Best Use of Outside Resources"* award among 15+ competing teams (3–5 members each).

Custom LLM with PyTorch: Class Project   Feb 2025 - May 2025
Software Developer
- Replicated GPT-2 architecture in PyTorch, designing and training a generative language model specialized in common-sense reasoning. Pretrained on 10B tokens (~20 GB) of curated educational web text, optimizing data usage while maintaining strong performance.
- Achieved higher accuracy than GPT-2 on the HellaSwag benchmark while using 10x fewer training tokens, showcasing efficiency in model design.

Fractal Movie with CUDA: Class Project   Nov 2023 - Dec 2023
Software Developer
- Built a CUDA-powered application to parallelize fractal image generation, producing continuous zoom-loop visualizations with high rendering efficiency.
- Applied C, Shell scripting, and parallel computing techniques to optimize performance, achieving significant speedups over CPU-only implementations.

EDUCATION

Code Differently, Wilmington, DE   Aug 2025 - Present
Career Readiness & Tech Bootcamp
University of Delaware, Newark, DE   Aug 2021 - May 2025
College Of Engineering | Bachelor Of Science (B.S.)
Major: Computer Science & Minor: Mathematics

EXPERIENCE

University Of Delaware, Newark, DE   Feb 2023 - May 2025
Residential Assistant
- Directed 30+ residents per semester, promoting community, inclusivity, and academic success through curated social, cultural, and educational programs.
- Coordinated and executed 10+ large-scale events (attendance ranging 50–150 residents), boosting student engagement and retention.
- De-escalated high-stakes conflicts, conducting on-call crisis management for incidents such as medical emergencies and behavioral disputes.

Home Mattress Center, Wilmington, DE   June 2023 - Aug 2023
Website Manager & SEO
- Enhanced organic search visibility by implementing on-page SEO (keyword optimization, metadata), off-page strategies (backlinks), and technical SEO improvements (page speed, mobile responsiveness).
- Increased site impressions by ~25% over 3 months, driving measurable traffic growth and customer engagement.
- Monitored and analyzed performance via Google Analytics, providing bi-weekly reports with actionable insights that improved conversion funnel efficiency.