

Kase Johnson

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EDUCATION

Tennessee Technological University <i>Master of Science in Computer Science, Artificial Intelligence and Machine Learning</i>	Cookeville, TN Jan. 2023 – Dec 2024
Tennessee Technological University <i>Bachelor of Science in Computer Science, Minor in Mathematics</i>	Cookeville, TN Aug. 2019 – Dec 2022

EXPERIENCE

Software Engineer Intern <i>Tennessee Valley Authority</i> <ul style="list-style-type: none">Managed SQL Server databases, ensuring the security and integrity of critical business data.Collaborate on SQL script development and website updates, ensuring accurate and timely data-driven reporting for business users.Troubleshoot and resolve system issues reported through support tickets, conducting root cause analysis to prevent recurring problems.Partner closely with business stakeholders to understand and fulfill technical requirements.Demonstrated proficiency in both front-end and back-end system improvements.	Sep. 2022 – Present Cookeville, TN
Undergraduate Teaching Assistant <i>Tennessee Technological University</i> <ul style="list-style-type: none">Assisted in lectures and reinforcing core database concepts, including SQL queries and database design.Graded assignments and exams, providing clear and constructive feedback.Conducted one-on-one tutoring sessions and group workshops to address student challenges.Served as a liaison between students and faculty to address academic concerns.	Aug. 2023 – Dec 2024 Cookeville, TN
Cloud Security Workshop Assistant <i>Tennessee Technological University (NSA Funded)</i> <ul style="list-style-type: none">Supported educators and professionals in understanding AWS, Azure, and Google Cloud platforms.Developed a game in Java to test the generated dungeonsDelivered training on IAM permissions, database best practices, and cloud security fundamentals.Collaborated with lead professor on curriculum development and workshop logistics.	June 2023 – July 2023 Cookeville, TN

PROJECTS

AID3 <i>Python, PyTorch, TensorFlow, Git</i> <ul style="list-style-type: none">Developed an AI-powered failure detection system using YOLOv8 to monitor and identify failures in real-time from live 3D printer video feeds.Optimized detection performance through hyperparameter tuning, improving accuracy and reducing failure rates.Automated failure reporting and analysis, enabling proactive intervention and reducing material waste during failed prints.	April 2024 – Dec 2024
Minecraft Plugin Development <i>Spigot API, Java, Maven, Git</i> <ul style="list-style-type: none">EzHomes: Adds "home" teleportation capabilities to serversRolePlayers: Adds custom classes that each give their own unique effects and abilities.HeadStash: Store players inventory at your death location.TeePeeRequests: Adds the ability for players to teleport to each otherOther Projects: All can be found on my Github Page	May 2024 – Present

TECHNICAL SKILLS

Languages: Python, SQL, Java, JavaScript, HTML/CSS
Frameworks: React, TensorFlow
Database Management: SQL Server, MySQL
Cloud Technologies: AWS (Certified Cloud Practitioner), Azure, Google Cloud
AI & Machine Learning: CNN's, Computer Vision, TensorFlow, PyTorch
Developer Tools: Git, Docker, Visual Studio Code
Certifications: AWS Certified Cloud Practitioner