

# Kase Johnson

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## EDUCATION

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

## EXPERIENCE

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

## PROJECTS

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