Sebjin Kennedy

Located in Nashville, TN | Open to Relocation
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EDUCATION

Tennessee Technological University, College of Engineering
Cookeville, TN
Major: Bachelor of Science in Computer Science — December 2025
Concentration: Information Assurance and Cybersecurity — GPA: 3.38
Certification(s), Honors, and Awards: Fundamentals of Git by GitKraken, Tennessee Tech Presidential Scholarship, Tennessee Tech Engineering Joint Council Scholarship
Objective: Obtain a full-time position pertaining to cybersecurity, software development, or IT starting December 2025

EXPERIENCE

Tennessee Technological University - CEROC — **Cookeville, TN**
Undergraduate AI Cyber Researcher — October 2024 - Current
- Created and delivered multi-week AI/Cybersecurity workshops (RL, LLMs, NLP, adversarial defenses) **adopted into TTU graduate coursework**.
- Taught faculty from regional universities who **integrated the material into their own classes**.
- Led 24+ sessions with groups of **20–30 students and faculty**, earning **98% average satisfaction**.
- Standardized delivery with instructor guides and lab keys, **ensuring consistency across cohorts**.

Tennessee Technological University - CEROC — **Cookeville, TN**
Student Ambassador — February 2024 - Current
- Represented CEROC at events like Infosec Nashville 2024, welcoming sponsors and investors, helping drive **strong sponsor return rates**.
- Supported outreach for student groups ranging from **5 to 20 participants per session**, tailoring discussions to **fit different audience sizes and needs**.

PROJECTS

Cookeville Police Department Modules — **Cookeville, TN**
DevOps Lead — March 2025 - Current
- Architected and deployed a fully operational AWS EC2 environment to enable seamless collaborative development for a five-member team, integrating GitHub for real-time code updates and environment synchronization.
- Directed collaboration with the Cookeville Police Department to design and implement three backend modules—a Leave Management System, a notification system tied to the department's LDAP, and Purchase Request System—using SQL/Node.js/Express.js for the backend and HTML/CSS for the frontend. Developed user stories, project charters, and reports to define scope and drive efficient team execution.

AI-Driven ECG Anomaly Detection Using Federated Multimodal Models — **Cookeville, TN**
Self-Led — September 2025
- Engineered a federated multimodal AI pipeline on the PTB-XL dataset (21k ECG records with 12-lead signals + patient metadata such as age and weight), enabling privacy-preserving anomaly detection across distributed sources and improving detection accuracy by 30% on average.
- Fine-tuned state-of-the-art Hugging Face LLMs (TimeLLM) for biomedical time-series and multimodal fusion, boosting anomaly classification accuracy and clinical interpretability on ECG data by 45% on average.

Adversarial Machine Learning Project — **Cookeville, TN**
Undergraduate AI Cyber Researcher — June 2024 - August 2024
- Developed and facilitated specialized workshops within the AI–Cybersecurity domain, encompassing applied use of the MITRE ATLAS framework, execution of red team analysis reporting, in-depth coverage of adversarial defense methodologies, and exploration of Generative Adversarial Network architectures.
- Established and administered a collaborative peer-review framework within Microsoft Teams, enabling cross-functional feedback exchange and fostering continuous improvement in deliverables.

PROGRAMMING LANGUAGES: C, C++, Python, Rust, SQL, Javascript, R, Bash Scripting, YAML Script, Angular, MongoDB
TECHNICAL SKILLS: DevOps, OOP, Data Structures and Algorithms, Github/Git CLI, Ansible, Machine Learning, Deep Learning, VirtualBox, Docker, AWS, RegEx, Subnetting, Microsoft Office Suite, Documentation, CIA Triad, Postman, NodeJS, HTML, CS
SOFT SKILLS: Communication, Teamwork, Conflict Resolution, Adaptability, Critical Thinking
INTERESTS: Dungeons and Dragons, Indie Gaming, Personal Computer Building and Repair, Biking, Photography, Reading