AUSTIN K. MCCALLISTER

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Education & Certifications

Georgia Institute of Technology	**Expected December 2026**
Bachelor of Science in Computer Engineering, GPA: 4.0	*Atlanta, Georgia*

AWS Certified Developer - Associate	**July 2025**

Relevant Coursework

- Data Structs & Algos
- Cloud Computing
- Object Oriented Prog.
- Partial Differential Eq.
- Linear Algebra
- Fourier Analysis
- Circuit Analysis
- Digital System Design

Experience

EduVision Technologies — **March 2024 – Present**
Founder & Chief Executive Officer — *Wesley Chapel, FL*

- Modernized 2 private school's IT infrastructure, deploying campus-wide Ubiquiti networks supporting 100+ devices.
- Installed 1.5+ miles of Cat-6 cabling, 20+ 4K cameras, programmed 60+ iPads, and door access systems.
- Implemented a VOIP AIPhone system integrated with PBX, and reduced client landline costs by $2,424 annually.
- Saved $10K+ through strategic hardware and software sourcing while maintaining full system reliability.

Ultra Technologies — **September 2025 – Present**
Audio Engineering — *Gainesville, FL*

- Engineered and operated live audio and network infrastructure for the University of Florida's football stadium, maintaining 100% uptime across 90,000-attendee events under national ESPN coverage.
- Remediated critical vulnerabilities in the entire university's DANTE audio, visual, and control systems (risk level 9/10), preventing unauthorized administrative access and protecting high-profile national broadcasts.
- Built a React + Python audio control platform hosted on AWS to automate the stadium's public announcement systems, reducing manual interventions by 90% and enabling real-time control for 90,000-attendee events.

Projects

ThreatMarker | *TypeScript, Python, BabelJS, Jest, TensorFlow, NumPy, AWS Sagemaker* — **June 2024 – March 2025**

- Built a universal deobfuscator using taint analysis and AST reconstruction, reducing code complexity by over 82%.
- Developed a Transformer-based NER model to detect malicious code, achieving 69% accuracy (+27% over baseline).
- Integrated deobfuscator with NER to create ThreatMarker, improving segment detection accuracy to 89.6% (+31%).
- Tested across 20,000+ code samples, demonstrating scalable, proactive malware analysis and enhanced detection.

Affiliate Marketing Pipeline | *Python, JavaScript* — **December 2024**

- Developed algorithms that automatically match TikTok sellers with relevant creators, automating affiliate partnerships.
- Optimized automation pipeline to eliminate 99.99% of manual effort, delivering over 5M targeted sponsorship offers per hour and covering the entire platform within a day, significantly boosting seller sales and engagement.
- Reverse-engineered TikToks bot detection algorithm to build a request-based solution to ensure maximum efficiency.

BuzzBoard | *Figma, Docker, Java, Spring Boot, React, AWS EC2, AWS S3, AWS Elastic Beanstalk* — **August 2025**

- Developed a full-stack React + Spring Boot dashboard integrating real-time coursework, dining balances, campus events, emails, server status, and weather data, reducing daily task-checking time by 95%.
- Automated integration of 10+ data sources with request-based web scraping, improving data reliability and efficiency.
- Deployed the app on AWS (EC2, S3, EB) with CI/CD via GitHub Actions, ensuring scalable, cross-platform access.

Technical Skills

Languages: Python, C, C++, Java, SQL, HTML, CSS, JavaScript, TypeScript
Technologies/Frameworks: Linux, TensorFlow, Spring Boot, React, Svelte, Tailwind, JUnit, Jest
Developer Tools: Amazon Web Services, GitHub, Docker, Raspberry Pi C/C++ SDK, Wireshark, AIPhone Support Tool, UniFi Controller, Grandstream PBX, Figma, Jupyter, CAD, Fusion360, CI/CD, GitHub Actions

Leadership / Extracurricular

Smile Project | *Python, Docker, Google Cloud Platform, AWS Fargate* — **March 2024 – Present**
President

- Directed an 8-member engineering team to build and scale Smile Project, an anonymous social media platform fostering positivity through verified peer-submitted messages.
- Grew platform to 2k+ followers, 2k+ posts, and 500k+ interactions by optimizing infrastructure for scalability.
- Engineered *Kindness Operation*, a containerized pipeline in Python, automating verification of submissions and generating Instagram posts using Pillow, reducing review time by 90% and handling up to 100+ daily messages.