Conner Langston

Apex, NC | 919-698-0097 | conner.langston@icloud.com | LinkedIn: Conner Langston

EDUCATION

Pennsylvania State University *University Park*
Bachelor of Science, Cybersecurity May 2026
Smeal Business Certificate
GPA 3.26

WORK EXPERIENCE

Software Engineer Intern (Full Time) | Pearson, Durham, NC June 2025 – Aug 2025
- Designed and developed a QR Scanner App capable of supporting over 5 million use cases, enabling teachers to streamline classroom sign-ins and provide a more efficient login experience for K–5 and homeschooled students
- Operated within a hybrid Agile team, contributing to daily scrums, sprints, and collaborative pair programming while using PingAM, Git, and Testfully/Postman to create a cohesive application on the teacher and student side
- Engaged in mentorship sessions on agentic development and best practices in modern software engineering
- Utilized AWS S3 and EC2 for QR metadata storage and backend services, improving scalability and reliability
- Presented technical demos and architecture overviews to 200+ stakeholders, highlighting system design and impact

PROJECT EXPERIENCE

QR Scanner Integrated App – Team Lead May 2025
- Reduced K–5 student and homeschooled login time from four minutes to five seconds by engineering a scalable QR-based authentication system that automatically logs the student in when the QR code is scanned
- Constructed a teacher portal enabling account creation, QR token generation, and real-time revocation controls
- Developed and deployed a full-stack application using React and Node.js, integrating with PingAM to provide secure login via SHA512 encryption, QR token generation, and teacher-controlled revocation
- Implemented dynamic state management, token expiration handling, and backend security validation while deploying on AWS EC2 and S3 for scalable, fault-tolerant performance

Iperf connection and design – Student Project Lead Feb 2025
- Conducted network optimization using iPerf for secure and efficient bandwidth allocation across distributed nodes
- Implemented throughput testing with TCP streams to identify bottlenecks, improving reliability and performance

Credential Vulnerability Assessment – Student Project Lead Mar 2024
- Performed static binary analysis with Ghidra and IDA Pro to uncover passwords and assess system vulnerabilities
- Tested password resilience, leveraging brute force attacks and hash comparison techniques to expose weaknesses

Intrusion Detection System – Student Project Lead Feb 2024
- Engineered and configured an IDS using Snort to monitor and detect malicious network activity in real time
- Fine-tuned rule sets and anomaly detection parameters to reduce false positives and improve threat identification

Chick-fil-A Network Design – Student Lead Aug 2023
- Conducted a comprehensive analysis to design a secure network database for multiple sites across central PA
- Deployed a scalable network topology using industry-standard policies to enhance security and performance

TECHNICAL SKILLS

React · Java · JavaScript · SQL · HTML · Shell · Ghidra · IDA Pro · Wireshark · iPerf · PingAM · Snort · Risk Analysis

RELEVANT COURSEWORK

Discrete Mathematics · Algorithmic Problem Solving · Data Structures · Operating Systems · Computer Networks · Digital Electronics · Software Engineering · Computational Linear Algebra · Database Management Systems · Encryption

CAMPUS EXPERIENCE

Delta Sigma Phi Vice President of New Member Education – Executive Leader Aug 2024 – Aug 2025
- Led the creation, development, and execution of the new member education program for three new member classes
- Facilitated weekly meetings and mentorship initiatives to foster leadership skills and organizational involvement

NSC (National Security Club) - Member Aug 2024 – Present
- Engaged in events featuring industry professionals to discuss advancements in national security in the present day

Red Cell Club - Member Aug 2024 – Present
- Active participant in hands-on simulations to identify system vulnerabilities, enhancing skills in threat detection

Nittany Entrepreneur Society - Member Aug 2024 – Present
- Collaborating with alumni to refine entrepreneurial skills through workshops and networking events