

# Spencer Shirah

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Portfolio Website: <https://sshirh.github.io/portfolio/>

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## Education

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### Auburn University

B.S. in Software Engineering, Summer 2026

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## Projects

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### SENIOR DESIGN PROJECT – SGCOE AI TEAM MATCHING TOOL

Python, SQL, Milvus, Vector Search, Team Matching

- Developing an AI-assisted platform to match researchers/institutions to personalized research teams based on skills, interests, and availability
- Designed and implemented a relational SQL database schema to store users, projects, skills, and team constraints
- Integrated Milvus vector database to enable semantic matching and similarity search across profiles and project requirements
- Collaborated in a multi-member team, dividing responsibilities across database design, AI matching logic, and system integration

### AI PHONE RECEPTIONIST — PYTHON, OPENAI API, TWILIO

- Built an AI-powered phone receptionist that answers inbound calls, processes natural language speech, and routes customer requests
- Integrated OpenAI with Twilio Voice APIs to generate real-time conversational responses
- Designed call flows for business inquiries and automated handling without human intervention

### PERSONAL PORTFOLIO WEBSITE — HTML, CSS, JAVASCRIPT, GITHUB

- Designed and deployed a responsive personal portfolio website showcasing software and cybersecurity projects
- Implemented contact functionality and project demos to support internship and full-time recruiting
- Deployed using GitHub version control and pages

### SECURE PASSWORD MANAGER — PYTHON, CRYPTOGRAPHY

- Developed a secure password manager with encrypted storage and retrieval of credentials
- Applied secure coding practices and industry-standard encryption techniques
- Designed a clean command-line interface focused on usability and data protection

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## Leadership/Experience

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### ETHICAL HACKING CLUB, *(September 2025 - present)*, Auburn University, Auburn, AL

- Conducted hands-on penetration testing labs simulating real-world cyberattacks, including SQL injection, buffer overflow, and network exploitation.
- Collaborated in teams to identify, analyze, and remediate system vulnerabilities in a controlled environment.

### CHI PHI FRATERNITY, *(September 2024 – present)*, Auburn University, Auburn, AL

- Participated in 50+ hours of community service and annual fundraising for local nonprofits.
- Collaborated with chapter members to organize campus-wide philanthropy events.

