

Tyler Hubbell

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PROFESSIONAL SUMMARY

Computer Science student with a 3.97 GPA and concentration in Software Engineering. Proficient in Java, Python, and C++, with experience in backend, frontend, and data-driven applications. Strong foundation in object-oriented programming, data structures, and algorithms. Background in logistics and operations at CSX Transportation, demonstrating precision, problem-solving, and teamwork. Seeking a Summer 2026 Software Engineering internship.

EDUCATION

Southern New Hampshire University – Remote, Online

Bachelor of Science in Computer Science, Concentration in Software Engineering
GPA: 3.97, Dean's List

PROJECTS

AI Train Optimization Prototype | Python, TensorFlow, Flask, React

- Designed an AI-driven prototype to enhance train scheduling and yard operations through predictive modeling.
- Integrated simulated CSX logistics data to optimize Positive Train Control (PTC) and Trip Optimizer systems.
- Implemented reinforcement learning models to simulate efficiency gains and reduce dwell time.
- Built backend APIs to visualize predictions and performance metrics using Flask and React.

GreenPeaks Mobile App | React Native, TypeScript, Expo, Firebase, Google Cloud Vision

- Developed a cross-platform mobile app that uses machine learning for real-time plant identification and care recommendations.
- Integrated image recognition APIs with custom-trained models for botanical detection and description generation.
- Built modular UI/UX system using React Native and Firebase Cloud Storage.

Personal Portfolio Website | HTML, CSS, JavaScript, GitHub Pages

- Built and deployed a responsive personal website to showcase technical projects and achievements.
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EXPERIENCE

Freight Conductor | CSX Transportation – Syracuse, NY | 2023 – Present

- Coordinated and managed freight trains across regional rail lines, ensuring safety, schedule accuracy, and compliance with federal regulations.
 - Collaborated with engineers and dispatchers to optimize logistics and maintain operational efficiency under high-pressure conditions.
 - Applied structured problem-solving and attention to detail in safety-critical environments, skills directly transferable to software engineering.
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TECHNICAL SKILLS

Languages: Python, Java, C++, TypeScript, JavaScript, SQL

Frameworks: React Native, Node.js, Flask, Spring Boot, TensorFlow

Databases: MySQL, Firebase

Tools: Git, GitHub, VS Code, IntelliJ, PyCharm, Expo

Specialties: Machine Learning Integration, Full-Stack Development, AI Prototyping, Systems Automation