

GARRETT HAYES



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EDUCATION

Tennessee Technological University

BSE Computer Science

Aug 2021 – Dec 2024

Cookeville, TN

- GPA: 3.48

WORK EXPERIENCE

TTU Civil Engineering Department - Web Developer

Apr 2024 - Present

- Contributing to the development and ongoing maintenance of a React frontend that interacts with RESTful web services to display testing data to the Tennessee Nutrient Database site
- Integrating ESRI GIS mapping within a React frontend for data visualization

Cookeville, TN

TTU Computer Science Department - Lab Instructor / Teaching Assistant

Aug 2022 – Apr 2024

- Lead lab sections for TTU's CSC 1300 - Intro to Problem Solving and Computer Programming
- Introduced basic C++ programming syntax to beginner level programming students
- Engaged in pedagogical tasks to provide students with a detailed understanding of programming
- Provided additional tutoring hours for undergraduate students

Cookeville, TN

Naval Surface Warfare Center Dahlgren Division - Software Development Intern

May 2023 - Aug 2023

- Engaged in scrum processes such as daily stand-ups, code reviews, and other agile tactics
- Worked to develop and refine graphical user interfaces within the scope of a project
- Developed bug fixes for a large legacy .NET code base
- Initiated the process of migrating graphical frameworks of software for cross-platform functionality
- Gained Secret Level Security Clearance through May 2033

May 2024 - June 2024

Dahlgren, VA

LEADERSHIP

Association for Computing Machinery - Vice-President

May 2023 - May 2024

- Assisted in leading and managing Tennessee Technological University's ACM chapter by organizing and executing events and activities such as workshops, guest speakers, and competitions
- Secured funding for club meetings by working with Tennessee Tech's Student Government Association
- Developed all code used in workshops, demonstrations, and competitions

Cookeville, TN

PROJECTS

CPD Portal System - HTML, CSS, JavaScript, Node, Microsoft SQL, AWS

- Spearheading a software engineering team as Team Lead and Scrum Master for the Cookeville Police Department
- Leading the process of revitalizing the purchase order system used to optimize purchase tracking, vendor management, and financial oversight
- Overseeing and managing the design and development of a newly introduced portal system containing sensitive information and tools for Police Department employees

Farm Data Tracker - React, Node, MariaDB, AWS

- Managed the development of a robust web application tailored for farmers, streamlining record-keeping of production, sales, and profitability metrics for enhanced efficiency and informed decision-making in an accelerated timeline of 8 weeks
- Assumed the position of Team Lead and Scrum Master, embracing the responsibility of making pivotal decisions for the development process, including selecting the preferred tech stack, establishing CI/CD pipelines, and determining AWS hosting solutions

Facial Detection Software - Python, NumPy, OpenCV

- Engineered a facial recognition program using a machine taught library to detect faces in real-time camera feeds; implemented with OpenCV in Python for accurate face detection

SKILLS

- Web Development: HTML, CSS, JavaScript,
- React, jQuery, Node, Express, Bootstrap
- Software Development: C++, Python, JavaScript, EMCA Script
- Data Analysis/Visualization: R, Chart.js, Python
- Scrum Processes: Stand-Ups, Sprint Planning, Sprint Retrospectives
- Source Control: Git, GitHub, GitLab, GitKraken Certification
- Quality Management: Six Sigma White Belt Certification
- Databases: MySQL, MariaDB, Microsoft SQL, HeidiSQL, SQLite