Austin Vesich

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Education	**Bachelor of Engineering, Software Engineering** — **May 2026**

Education

Bachelor of Engineering, Software Engineering   **May 2026**
Rose-Hulman Institute of Technology, Terre Haute, IN   **GPA: 4.0**
Related Courses: Data Structures and Algorithms, Web Programming, Database Systems, Software Project Management, Software Quality Assurance, Object-Oriented Software Development, Intro to Systems Programming, Technical Communication
iOS App Development Bootcamp   **June 2023-Present**
Online through Udemy, taught by Dr. Angela Yu
Concepts: GitHub, MVC & MVVM, UIKit, SwiftUI, Firebase, OOP and Swift, Unix Terminal, Swift Concurrency, CoreML, Networking, APIs & JSON Parsing, ARKit, App Publishing

Skills

OOP, Swift, Xcode, App Store distribution tools, Figma, Notion, Git, Java, C++, C#, JavaScript, Microsoft Office, Google Productivity Apps

Experience

Code Ninjas Crown Point, Crown Point, IN   **May 2022-August 2023**
Lead Code Sensei, Curriculum Planner
- Developed Block-based activities in Microsoft MakeCode for young students
- Explained and diagrammed programming concepts to aid students' understanding of JavaScript programs

Expedition Future Corp., Crown Point, IN   **September 2021-May 2022**
Social Media Manager
- Utilized Canva to create and schedule unique social media posts for multiple platforms

Projects

Personal iOS Project: *(Swift)*   **June 2018-Present**
- Used Figma, UIKit, and MVC to design and implement a user-accessible interface
- Implemented a searchable storage system using hashing data structures and heaps
- Combined Swift networking with the SwiftSoup library to parse data from HTML
- Synchronized data using Firebase services for storage and user authentication
- Handled purchase status' asynchronously with StoreKit 2 and Swift concurrency
- Managed distribution across user groups using App Store Connect and TestFlight

iOS Development Exploration: *(Swift)*   **April 2023-Present**
- Applied the MVVM design pattern to multiple SwiftUI projects
- Created reactive interface elements, including custom graphs, with SwiftUI
- Used CreateML and CoreML to implement an ML model into an interactive app
- Used Networking and JSON parsing to access finance APIs for a cryptocurrency app

Rose-Hulman CSSE 220 & 230: *(Java)*   **August 2022-February 2023**
- Applied pair programming and utilized Java AWT graphics to create a 2d game in collaboration with other students.
- Analyzed data structure applications and implemented solutions, including AVL trees, to enhance inefficient code runtime by one or more orders of magnitude

Activities

RHIT VEXU Robotics Team: *President, Founder, Programmer (C++)*   **2023-Present**
- Researched, Compiled, and Presented statistics in advocacy for team establishment
- Worked with team presidents to obtain recognition as an RHIT competition team
- Used Microsoft Teams and Google Drive to organize and share files across the team
- Created high-precision documentation with CAD sketches, professional decision explanations, and inclusion of other supporting media.

CPHS Vex Robotics Team: *Lead Designer, Engineer, Programmer (C++)*   **2018-2022**
- Engineered and programmed innovative solutions to annual competitive challenges
- Earned Judges Award, Build Award, and Excellence Award
- State Qualifier (2018-19, 2020-21, 2021-2022)