

Abhinav Suresh

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EDUCATION

University of Michigan

Ann Arbor, Michigan

B.S in Computer Science & Minor in Entrepreneurship

Graduation Date: May 2026

- **Relevant Coursework:** Data Structures & Algorithms, Foundations of Computer Science, Discrete Mathematics, Programming & Data Structures, Statistics & Artificial Intelligence, Calculus 2
- **Certifications:** [IBM Python for Data Science, AI & Development](#), [Codecademy - C++](#), [Codecademy - JavaScript](#)

SKILLS

- **Programming:** C++, Python, Java, JavaScript
- **Framework:** React
- **Technical:** Data Structures & Algorithms, Data Mining, Machine Learning, API, AI, Web App Development, Business Development, Service Provider, Technical Support, Infrastructure Development, Project Management, Financial Analysis
- **Software:** Visual Studio, Microsoft Office, Google Suite, Adobe Creative Suite, Figma
- **DAW:** Ableton Live 11, Reaper, Logic Pro, Adobe Audition

PROJECTS

[RouteMaster Logistics Manager](#) | C++

- Engineered a comprehensive logistical management system for tracking deliveries and optimizing routes
- Designed an algorithm to schedule and prioritize deliveries based on various factors such as delivery deadlines, distances, and traffic conditions, further increasing on-time deliveries by 23%
- Utilized priority queues, hash tables, and adjacency lists to efficiently manage over 1,500 delivery logs, resulting in a 50% reduction in query time and a 30% improvement in route optimization
- *Relevant Skills:* C++, Priority Queues, Hash Tables, Adjacency Lists, Dijkstra's Algorithm, Object-Oriented Programming, Modular Design, CI/CD, Problem Solving, Analytical Thinking

[Spotify Tempo-Key Analyzer](#) | Python

- Developed a web application leveraging the Spotify Developers' API to analyze the key and tempo of any given musical track within the Spotify database with high accuracy, ensuring 95% confidence in results across diverse musical genres
- Implemented API calls to access and retrieve metadata from Spotify's database. Used efficient parsing and data-extraction techniques to structure and organize the metadata for analysis
- Conducted integer mapping to accurately convert key metadata, provided in Pitch Class notation, into corresponding musical keys, producing precise key identification and classification
- *Relevant Skills:* Python, APIs, Data Extraction and Processing, Algorithm Design, Metadata Analysis, Statistical Analysis, Integer Mapping, Data Structures

EXPERIENCE

V3NOM Audio and Entertainment

Ann Arbor, Michigan

Software Engineer & Founder

Apr 2022 – Jun 2024

- Implemented advanced data processing algorithms using C++ and Spotify Developers' API, optimizing backend workflows. Achieved a 41% increase in production efficiency by reducing average production time from 12 hours to 7 hours per soundtrack
- Delivered audio production services to 28 prestigious public universities, including the University of Michigan and the University of Pennsylvania. Achieved a 98% customer satisfaction rate and expanded the client base by 60% within a year through targeted marketing and exceptional service delivery

Audi Farmington Hills

Farmington Hills, Michigan

Inventory Specialist

May 2022 – Aug 2022

- Utilized Reynolds and Reynolds software to organize over 10,000 parts and inventory items. Leveraged Excel to track and reconcile over \$500,000 in monthly invoices, implementing detailed tracking and auditing procedures, resulting in a 20% reduction in inventory discrepancies
- Developed an automated tracking system using Excel macros to streamline financial processes, reducing invoice processing time by 30% and improved financial accuracy for the dealership through real-time tracking.

LEADERSHIP AND EXTRACURRICULAR

- **Michigan Manzat** | *Captain and Audio Engineer* | **Ann Arbor, Michigan** | Nov 2022 – Present
- **Automotive Futures** | *Member* | **Ann Arbor, Michigan** | Sept 2022 – Present
- **VT Seva Detroit** | *Finance Chair* | **Farmington Hills, Michigan** | Mar 2020 – Dec 2023
- **Kil's Tae-Kwon-Do** | *3rd Degree Black Belt & Instructor* | **Ann Arbor, Michigan** | Nov 2006 – July 2022
- **Other Interests:** Soccer (Team Captain), Cars (Enthusiast), Fitness (Strength Training)