

Nathan Hunsberger

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Education

Vanderbilt University — *Master's in Computer Science*

August 2022 – May 2024

- GPA: 4.0/4.0
- Relevant Coursework: Foundations of Machine Learning, Network Analysis in Healthcare

Vanderbilt University — *Bachelor of Science in Computer Science, Mathematics*

August 2020 – May 2024

- Honors: Dean's List, 4.0 Recipient
- GPA: 4.0/4.0
- Relevant Coursework: Intermediate Software Design (C++), Data Structures & Algorithms (C++), Statistics Laboratory (R), Operating Systems (C)

Professional Experience

Trilliant Health – Remote – *Data Engineering Intern*

May 2022 – August 2022

- Transitioned ~52 billion data points of health provider data to updated pipeline for client use in a provider-level table
- Created Slack bot that uses RESTful services to interface with GitHub and Databricks APIs
- Harnessed cloud-serverless Azure Functions and Storage Tables to improve internal development tools
- Standardized over 7 million rows of address data for use with geocod.io's API
- Wrote YAML scripts for automated Azure deployment from Github repository merges

Granite Perfection – Reno, NV – *Software Engineering and Business Intern under President*

May 2021 – August 2021

- Developed augmented reality iOS app to improve estimating speed and market to new clients
- Designed company website to reach new clients and rebrand online presence
- Drafted bids and contracts for prospective clients

Computer Science Tutor – Nashville, TN

May 2022 - Present

- Instructed weekly lectures regarding Object Oriented Programming and Data Structures
- Designed practice projects leveraging linked lists, trees, stack, queues, and other data structures

Projects

Provider Directory Pipeline – Trilliant Health, *Developer*

June 2022 – August 2022

- Updated legacy pipeline of over 52 billion data points containing patient health claims
- Wrote performant Spark-Scala queries harnessing Apache Spark to manipulate health data per client requirements
- Deployed evergreen pipeline aggregating 5 years of US health claim line items into provider-level table for consumption by growing hospital systems

Granite Perfection Measurement Tool – Granite Perfection, *Lead Developer*

June 2021 – Present

- Harnessed XCode and Swift to create an internal Augmented Reality iOS measurement application
- Learned and read through Apple's documentation to utilize ARKit and SceneKit libraries

Reuse Vandy – Google Developer Student Club, *Developer*

Fall 2021 – March 2022

- Leveraged Firebase to create cloud storage solution to host items student on campus wish to sell
- Designed webpage using React to interface with Firebase storage solution

Tweet Comparison Artificial Intelligence Game – Independent Project, *Lead Developer* September 2020 – October 2020

- Utilized Twitter's API to create a guessing game which presented users tweets from Kanye West and Elon Musk
- Developed Logistic Regression model to compete with the user using TensorFlow and Pandas

Technical Skills

- **Advanced:** Python, C++, R, REST Frameworks, Java
- **Proficient:** Swift, XCode
- **Familiar:** TensorFlow, Pandas, NumPy, Sci-Kit Learn, Scala, Apache Spark

Campus Involvements

- Google Developer Student Club
- Teacher's Assistant for Vanderbilt Computer Science Department