

# Tristan Van

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## EDUCATION

### Vanderbilt University

Aug 2022 – May 2025

Bachelor of Science in Computer Science, Minor in Data Science | GPA: 3.6

Nashville, TN

- **Relevant Coursework:** Data Structures, Intro to Data Science, Discrete Structures, Computer Architecture, Intermediate Software Design

## EXPERIENCE

### Software Developer

Oct 2023 – Present

Change++

Nashville, TN

- Contributed to the creation of a loan management system, utilizing MongoDB as the database solution to achieve a more efficient and streamlined loan processing workflow.
- Implemented middleware to authenticate logins and control user permissions, strengthening system security and ensuring smooth user operation.
- Built backend endpoints using Node.js and Express, enabling seamless integration between the loan management system's front-end and database.
- Created intuitive user pages and a comprehensive admin dashboard using React, resulting in enhanced user experience and increased operational efficiency.

### E2 Level Technician

Aug 2019 – May 2022

Martin County School District

Stuart, FL

- Partnered with the IT department at the Martin County School District to support technology infrastructure, ensuring smooth operation and client satisfaction.
- Successfully installed, configured, and upgraded over 200 computers and peripherals within the Martin County School District, optimizing efficiency and enhancing user experience.
- Efficiently diagnosed and resolved various common IT issues, including software conflicts, network connectivity problems, and printer malfunctions, ensuring minimal disruption to daily operations.
- Actively collaborated with teachers and administrators on a daily basis to address their technology-related queries, resulting in improved productivity and enhanced user satisfaction.

## PROJECTS

### SELCA | Flutter, Android Studio, Firebase

- Collaborated with 3 developers to create a social-emotional learning app for children, promoting mental well-being
- Designed and developed a comprehensive homepage, curriculum page, article page, and video player
- Integrated user profiles with Firebase authentication for enhanced security and personalized user experiences
- Presented the app at Treehacks 2023, receiving positive feedback from judges and peers regarding its potential impact on student well-being

### Rollercoaster Ranking | React, JavaScript, HTML/CSS, REST API, Firebase, PostgreSQL

- Developed a full-stack web app using React, enabling users to rank rollercoasters based on personal experiences
- Built backend and REST API using Node.js, Express, and PostgreSQL for profiles, rankings, and secure storage.
- Improved UX with Firebase authentication and cookies for seamless login/registration, ensuring data privacy.
- Effectively deployed the web app on cloud hosting for global accessibility

### Song Popularity Predictor | Python, pandas, NumPy, PyCaret, Seaborn

- Analyzed a Kaggle dataset containing song attributes with the objective of predicting song popularity ratings
- Visualized song attribute relationships and popularity trends with Seaborn, identifying key factors
- Automated model training and tuning with PyCaret, ensuring accurate predictions and saving time
- Used a Random Forest Regressor model to predict song popularity accurately (MAE: 15.70, RMSE: 19.37).

## TECHNICAL SKILLS

**Languages:** Python, C++, SQL, JavaScript, TypeScript, HTML/CSS, R

**Frameworks:** React, Express, Node.js, PostgreSQL, MongoDB

**Developer Tools:** Git, Github, Firebase, Android Studio,

**Libraries:** pandas, NumPy, Seaborn, PyCaret