

ASHRIT RAM ANALA

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EDUCATION

Vanderbilt University
B.S. Computer Science

Nashville, TN
August 2024 – July (2027)

PROFESSIONAL EXPERIENCE

Change++

Nashville, TN

Developer | React, Node, Express, Typescript, MongoDB, Stripe Payments

September 2024 – Present

- Developed **MERN-based Typescript** app for Foster Source, national nonprofit with user base of **4,000+ Foster Families**
- Wrote **backend endpoints** and **MongoDB Schema** in Typescript for question response data
- Worked in **Agile Sprints** of 2 week intervals for iterative software improvements over time
- Creating **new LMS** for parents, defined new **MongoDB Schemas** for **payment processing**, courses, and user
- Projected increase in membership **revenue by 60%** and new family **registration by 75%** from new LMS model

Silverline Educational Advisory Services

Remote

Chief Technology Officer | React, OpenAI API, Python

April 2022 – Present

- Assembled and collaborated with 10 developers to create the website and data to **fine-tune** OpenAI model
- Oversaw **development, version control, code integration**, and dealt with **merge conflicts** for project as **CTO**
- Developed Silverline AI Chatbot tailored for user base of **5,000+ high school** students using fine-tuned data

University of Massachusetts - Lowell

Lowell, MA

Computer Science Research Intern | C++, CAD

July 2022 - August 2022

- collaborated with 2 graduate students to develop working **CAD hand exoskeleton models** published in research paper "Fabric-Embedded Dynamic Sensing for Adaptive Exoskeleton Assistance"
- Paper received an NSF **Grant Award** totaling over **\$620,000**.

PROJECTS

Smart Stock

Nashville, TN

Developer | React + Vite, Node, Express, Flask, Sentiment Analysis, MongoDB

September 2024 – Present

- Developed app to provide investors with public opinion on any stock with **sentiment analysis** of **20K+ Reddit posts** per stock ticker
- Worked with 4 other developers & **oversaw merge conflicts** while programming when needed
- Sentiment tracked and graphed with **Chart.js**
- Wrote Node.js **backend** with **API Endpoints** and established connection to **Flask and React servers**
- Built for **VandyHacks XI**

Geo-Bet

Remote

Developer | React + Vite, Node, Express, Firebase, MongoDB, Tailwind CSS

August 2024 – October 2024

- Developed **Full Stack** geography quiz bowl app achieving **200+ organic users**
- Geography quiz game where Vanderbilt students can answer geography trivia questions as preparation for quiz bowls

Loan Default Predictor

Remote

Developer & Analyst | R, RStudio, Machine Learning

February 2024 – April 2024

- Used **logistic regression model** achieving **C-Statistic >0.8 (strong model indication)** with potential savings of **\$1,000,000+** for dataset company when implemented
- Programmed in **R** and discusses the **full lifecycle** from cleaning to modeling to the analysis and conclusions
- Analysis found on www.mlwithashrit.org

YTSave Chrome Extension

Remote

Developer & Analyst | Javascript

August 2023 – September 2023

- Extension to aid users in the studying process by establishing bookmarks in videos with **100+ organic users** in **30+ countries**

SKILLS & INTERESTS

Programming and Development: Java, Spring, Python, Git, TypeScript, JavaScript, Node.js, Express.js, Next.js, RESTful API, React.js, Vite, Flask, MongoDB, Firebase, AWS, Postman, Machine Learning, MySQL, DaisyUI, HTML/CSS

Skills: Agile, Figma, CAD, Public Speaking

Interests: Swimming, Travel, Investing, Weightlifting, Badminton, Content Creation