ASHRIT RAM ANALA

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Boston, MA

EDUCATION

Vanderbilt University   **Nashville, TN**
B.S. Computer Science, Minor Data Science   *August 2024 – July (2027)*
Relevant Coursework: Data Structures, Intermediate Software Design, Discrete Structures, CS Ethics
Organizations: Change++, VandyHacks, Google Developer Group, Vanderbilt Data Science, Vanderbilt Blockchain

PROFESSIONAL EXPERIENCE

Foster Source   **Nashville, TN**
Developer | Typescript, React, Node, Express, MongoDB, Stripe Payments   *September 2024 – Present*
- Building **MERN-based Typescript** app for Foster Source, national nonprofit with user base of **4,000+ Foster Families**
- Designed **backend endpoints** for question response data, reducing query time by **70%**
- Enhanced user & site **security** through implementation of Firebase Authentication with JSON Web Tokens (JWT), handling **1,000+ authenticated sessions** per day
- Collaborating in **Agile Sprints** of 2 week intervals for iterative software improvements over time
- Developing **new Learning Model System** for parents, implementing **payment processing**, courses, and dashboard

Silverline Educational Advisory Services   **Remote**
Chief Technology Officer | React, OpenAI API, Python   *April 2023 – Present*
- Delivered Silverline AI Chatbot tailored for user base of **5,000+ high school** students using fine-tuned data
- Assembled team of 10 developers to create Silverline website and inputted up to date data to **fine-tune** OpenAI model
- Oversaw **development**, **version control**, **code integration**, and dealt with **merge conflicts** for projects

University of Massachusetts - Lowell   **Lowell, MA**
Computer Science Research Intern | C++, CAD   *July 2022 - August 2022*
- Contributed to develop working **CAD hand exoskeleton models** for the elderly published in research paper "Fabric-Embedded Dynamic Sensing for Adaptive Exoskeleton Assistance"
- Secured 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*
- Engineered web app to provide investors with public opinion on stocks with **Reddit API** and **Python sentiment analysis**
- Queried **20K+ Reddit posts** and ran sentiment analysis algorithm to calculate user sentiment and save data in **MongoDB**
- Collaborated with 4 other developers & **managed merge conflicts** while programming when needed
- Fetched sentiment from MongoDB database and graphed sentiment with **Chart.js**
- Developed Node.js **backend** with **API Endpoints** and established connection to **Flask and React servers**

Geo-Bet   **Remote**
Developer | React + Vite, Node, Express, Firebase, MongoDB, Tailwind CSS   *August 2024 – October 2024*
- Processed **50 requests** to Geography API and setup backend **API endpoints** in **Node.js** server to communicate and display multiple choice questions with **React.js + Vite** frontend server
- Launched **Full Stack** geography quiz bowl app achieving **200+ users**
- **Vanderbilt** Students can answer geography trivia questions as preparation for quiz bowls

Loan Default Predictor   **Remote**
Developer & Analyst | R, RStudio, Machine Learning | https://mlwithashrit.org/defaultRate.html   *February 2024 – April 2024*
- Created a Loan Default Predictor programmed in **R** utilizing **logistic regression model** achieving **C-Statistic >0.8** (**strong model indication**) with potential savings of **$1,000,000+** for dataset company when implemented
- Discussed the **full lifecycle** of the project from cleaning to modeling to the analysis and conclusions on personal website

YTSave Chrome Extension   **Remote**
Developer & Analyst | Javascript   *August 2023 – September 2023*
- Developed extension to aid users in the studying process by establishing bookmarks in videos with **100+ users** in **30+ countries**

SKILLS & INTERESTS

Programming Languages: Java, Python, TypeScript, JavaScript, R, HTML/CSS
Tools: Spring, Node.js, React.js, Vite, Express.js, Next.js, Flask, RESTful API, MongoDB, Firebase, AWS, Jest, Postman, DaisyUI, Figma, Canva, Git
Skills: Agile, CAD, Public Speaking, Communication
Interests: Swimming, Travel, Investing, Weightlifting, Badminton, Content Creation