Vasu Naman Verma

vermavasun@gmail.com | (209) 244-6777 | Portfolio | LinkedIn | GitHub

EDUCATION

Texas A&M University, College Station, Texas   *Aug 2022 – May 2024*
Master of Computer Science - GPA: 3.83

Thapar Institute of Engineering and Technology, Patiala, India   *Aug 2016 – July 2020*
Bachelor of Engineering in Electronics and Computer - GPA: 9.6

Relevant Coursework : *Software Engineering, Analysis of Algorithms, Algorithms for Big Data, Operating Systems, Distributed Systems and Cloud Computing, Quantum Algorithms, Deep Learning*

SKILLS AND CERTIFICATIONS

Languages: C++, Java, Python, R, SQL, Postgres, JavaScript, HTML/CSS
Frameworks: Django, Rails, React, Chakra UI, Tensorflow, Keras
Tools: AWS, Git, Heroku, JIRA, Maven
Certifications: AWS Certified Cloud Practitioner

EXPERIENCE

Amdocs   Gurgaon, India
Software Engineer Experienced   *Sept 2020 – July 2022*
- Orchestrated 3 iterative client data-gathering phases, ensuring accurate project information.
- Collaborated with the Ordering Team to streamline loan creation into a concise 5-step interface.
- Reduced technician wait times by 50% by implementing an Appointment Booking System to optimize resource allocation.
- Consolidated 3 pages into 1, enabling support staff to access and troubleshoot all customer devices from a single interface.
- Developed logic for payment processing using 3rd party payment processors, enhancing transaction accuracy.
- Headed 25% of new CRM features per quarter, driving product enhancement and innovation.
- Created APIs to enable seamless customer case creation in accordance with business requirements.
- Devised and executed Database Schema for iterations, ensuring organized data and scalability.

OYO Rooms   Gurgaon, India
Software Engineer Intern   *Jan 2020 – June 2020*
- Built a user-friendly Menu-Driven Interface utilized by 2 teams for SQL query creation, storage, and distribution on Hive.
- Automated customer on-boarding with an Excel Parser reducing time and effort.
- Constructed Health Status Indicator for Invoice Team services, improving monitoring and issue resolution.
- Wrote API logic for the Invoice and Taxation Team using Ruby On Rails.

PROJECTS

- **AudioBid :** Built a Django-based web platform for voice transcription jobs, featuring dynamic pricing, a chat system, job claiming, and multiple audio upload options. Integrated Google OAuth and AWS SES for user authentication and communication.
- **Music Recommendation App:** Created a recommendation system for music utilizing a custom Natural Language Processing model. Preprocessed and analyzed song lyrics using TF-IDF vectorization and cosine similarity to generate song recommendations based on user preferences. Integrated this model into a Flask application, enhancing user experience by providing direct Spotify links to the recommended songs.
- **Classification with High-Dimensional Data :** Developed ML models in R, employing techniques like PCA and Boruta to reduce predictors from 500+ to 20 while maintaining high predictive power. Achieved 86% accuracy using various algorithms (XGBoost, decision trees, random forest, SVMs, etc.) and produced insightful visualizations and summaries of results.
- **Smart Air Purifier :** Designed an affordable smart air purifier controlled via webapp, utilizing C++, Arduino, AWS IoT, and web technologies. It features automatic activation based on dust levels, incorporates environmental sensors, and employs HEPA H13 and activated carbon filters for effective indoor air purification.

HONORS

- College awarded Merit Scholarships throughout my undergrad for being in the top 5% of my class.