Vasu Naman Verma

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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, JavaScript, SQL, R, Postgres, MongoDB, HTML/CSS
Frameworks: Django, ReactJS, Rails, NodeJS, ElectronJS, Rest API, Oracle, Chakra UI, Tensorflow, Keras
Tools: AWS, Git, Heroku, JIRA, Maven, Docker, Jenkins, GDB
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 leveraging 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 used 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.
- **Image Caption Generator:** Implemented an Image Caption Generator using advanced Computer Vision and Deep Learning techniques. This project utilized CNN to extract image features and LSTM networks to generate contextually relevant captions for images. It was trained on a subset of Flickr_8K dataset and successfully provided image annotations.
- **Smart Air Purifier :** Designed an affordable smart air purifier controlled via webapp, utilizing C++, Arduino, AWS IoT, JavaScript, and HTML/CSS. 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 undergrad for being in the top 5% of class.