

# Vasu Naman Verma

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## EDUCATION

**Texas A&M University**, College Station, Texas  
*Master of Computer Science - GPA: 3.9/4.0*

*Aug 2022 – May 2024*

**Thapar Institute of Engineering and Technology**, Patiala, India  
*Bachelor of Engineering in Electronics and Computer - GPA: 9.6/10.0*

*Aug 2016 – July 2020*

**Relevant Coursework :** *Software Engineering, Analysis of Algorithms, Artificial Intelligence, Deep Learning, Algorithms for Big Data, Operating Systems, Distributed Systems, Quantum Algorithms, Data Mining and Analysis, Randomized Algorithms*

## SKILLS AND CERTIFICATIONS

**Languages:** C++, Java, Python, JavaScript, SQL (Postgres, MySQL), HTML/CSS

**Frameworks:** Django, Spring Boot, React, Ruby on Rails, Node.js, Flask, Tensorflow, Keras, Chakra UI

**Tools:** AWS (EC2, Lambda, S3), Heroku, REST, SOAP, Git, Docker, Kubernetes, Jenkins, JIRA, Maven

**Certifications:** [AWS Certified Cloud Practitioner](#)

## EXPERIENCE

### Amdocs

Gurgaon, India

*Software Engineer*

*Sept 2020 – July 2022*

- Directed 3 iterative phases of client data collection, enhancing the accuracy and reliability of project datasets.
- Collaborated with the Ordering Team to streamline loan creation into a concise 5-step interface.
- Reduced technician wait times by 40% by implementing an Appointment Booking System to optimize resource allocation.
- Consolidated 3 systems into one platform, enabling support staff to troubleshoot all customer devices from a single interface.
- Developed logic for payment processing leveraging 3rd party payment processors, enhancing transaction accuracy.
- Headed the development of new features for the CRM system, contributing to 25% of quarterly product enhancements.
- Crafted robust APIs and intuitive user interfaces using Java, streamlining the process of customer support case management.
- Devised and executed Database Schema to support iterative enhancements and ensure data integrity.

### OYO

Gurgaon, India

*Software Engineer Intern*

*Jan 2020 – June 2020*

- Built a user-friendly Menu-Driven Interface used by 3+ teams for SQL query creation, storage, and distribution on Hive.
- Automated customer onboarding with an Excel parser, cutting onboarding team's time by 50%.
- Constructed Health Status Indicator for Invoice Team microservices, 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 OAuth2 and AWS SES for user authentication and communication.
- **Music Recommendation App:** Created a music recommendation app utilizing a custom NLP model for analyzing song lyrics and generating recommendations via TF-IDF vectorization and cosine similarity. Integrated the system into a Flask app, offering enhanced user experience with direct Spotify links to 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.
- **Hospital Management System:** Developed a comprehensive Hospital Management System with a user-friendly web interface, incorporating essential CRUD operations and secure login features. Employed HTML/CSS and JavaScript for the front-end and PHP and MySQL for back end.
- **Smart Air Purifier :** Designed an affordable smart air purifier controlled via web application, utilizing C++, Arduino, AWS IoT, JavaScript, and HTML/CSS. It features automatic activation based on dust levels 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.