

# VISHAL KODAM

☎ 860-304-8200

✉ [vkodamofficial@gmail.com](mailto:vkodamofficial@gmail.com)

🔗 [github.com/vishalkodam](https://github.com/vishalkodam)

🔗 [leetcode.com/vishalkodam](https://leetcode.com/vishalkodam)

## Technical Skills

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**Languages:** Python, JavaScript, Haskell, SQL

**Data Analysis & Automation:** PySpark, Pandas, PowerBI, CI / CD pipelines

**DevOps/Cloud:** Docker, Jenkins, Git, AWS (S3, Lambdas), Linux, Apache

**Developer Tools:** VS Code, Postman, Bitbucket, Jira, NodeJS, ReactJS, MongoDB, React Native, ReactJS

**ML/AI:** OpenCV, Neural Networks, Tensorflow, Pytorch

## Professional Experience

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### SUNY Poly College of Health Sciences

Jan 2023 – Jan 2025

#### Graduate Research Assistant

Marcy, New York

- Analyzing over 1,000 EEG signals from 120 sensors with EEGLAB and advanced statistical learning, enhancing behavior outcome interpretations by 15%.
- Designed interactive PowerBI dashboards that incorporated high-quality case study images—generated via Stable Diffusion and refined with VAEs—to drive actionable insights in psychological research.
- Optimized scalable ETL pipelines with AWS Glue, PySpark, and Amazon S3, reducing 25% data transformation time.

### OneBanc

June 2022 – December 2022

#### SDE-1

Gurugram, India

- Developed and maintained 10+ key screens for web and mobile apps (React, React Native, TypeScript), including account dashboard, fund transfers, and transaction history, improving load times by 35% and user retention by 20%.
- Integrated 8+ RESTful APIs and third-party services (Plaid, Stripe) to enable real-time payments, balance sync, and user onboarding, reducing API response latency by 25% through optimized data handling.
- Designed and queried scalable financial data models in PostgreSQL and MongoDB, and contributed to backend logic in Node.js/Express, supporting secure login, KYC verification, and logging of over 100K monthly transactions.

### JUSPAY TECHNOLOGIES

May 2021 – May 2022

#### Technical Product Engineer (Co-Op)

Bangalore, India

- Enhanced RESTful APIs in Haskell for India's 'Sahay App', integrating SOAP APIs and mobile SDKs with HUnit unit tests for seamless payment transactions
- Automated data pipelines using PySpark, reducing data processing time by 40% while handling large-scale real-time analytics.
- Contributed to back-end customization in R and improved dashboards, enhancing data logging and analysis.

### Kyoto Wave Culture - Freelance

Sep 2021 – Nov 2022

#### Front End Developer

Hyderabad, India

- Expanded and launched an e-commerce platform with a ReactJS front-end and NodeJS back-end powered by MongoDB, incorporating PayU for seamless transactions.
- Led creative direction for Harajuku-inspired clothing designs and managed social media platforms, resulting in a 30% increase in sales.
- Utilized Kanban methodologies for effective project tracking and timely delivery.

## Academic Projects

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### Cross-Platform Video Streaming App | *React Native, Expo, Appwrite, Animatable*

- Developed cross-platform mobile app using React Native, Expo, and Appwrite, implementing secure email authentication, real-time full-text search, and media upload functionality with optimized API integrations.
- Optimized dynamic UI rendering using Nativewind & Animatable, reducing API latency by 40% via query caching & implementing real-time search with 60ms response benchmarks.

### Agile Automation Tool | *LangChain, Streamlit, JIRA API, Jenkins*

- Engineered an AI-powered chatbot using LangChain and GPT-4 embeddings with Pinecone/Elasticsearch, improving JIRA task retrieval efficiency by 30% for agile automation.
- Integrated a Streamlit interface with Jenkins CI/CD pipelines, ensuring 99.9% uptime and streamlined workflows for real-time agile task management.

### Smart Inventory Query Assistant | *Python, Streamlit, MySQL, Google Generative AI*

- Constructed a natural language processing system employing few-shot learning and vector embeddings, which achieved 95% accuracy in generating SQL queries from user-defined inventory search parameters.

## Publication

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### Covid-19 Detection from X-ray Scans using Alexa | *Python, CNN, NLP, PyTorch, OpenCV*

- Enhanced a CNN model for chest X-ray image analysis using PyTorch and OpenCV, achieving a 93% accuracy (up from 85%) with findings published in an IEEE research paper ([link](#)), and integrated NLP with Python modules (pyttsx3, gTTS, urllib) to develop a virtual assistant skill set, reducing response time by 40%.

## Education

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### State University of New York

*Master of Science in Computer Science*

**Jan 2023 – Jan 2025**

*Marcy, New York*

### Indian Institute of Information Technology, Nagpur

*Bachelor of Science in Electronics and Communication*

**Jun 2018 – May 2022**

*Nagpur, India*

## CERTIFICATIONS

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- Oracle Autonomous Database Cloud 2021 Certified Specialist
- Stanford Online - Machine Learning Specialization