Pratham Vadhulas

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Professional Summary

Technology innovator with expertise in AI, full-stack development, and music technology. Specialized in data engineering for large audio datasets, machine learning models, and audio processing solutions with demonstrated success in research and client-facing environments.

TECHNICAL EXPERTISE

Programming Languages: Python, C++, Rust, JavaScript, TypeScript, Java, SQL

Programming Paradigms: Object-Oriented Programming (OOP)

Relevant Coursework: Data Structures and Algorithms, Operating Systems, Computer Architecture, Software Engineering,

Machine Learning, AI, Computer Networks, Database Systems, Linear Algebra, Calculus.

Frameworks Technologies: NextJS, React, React Native, Vue.js, Three.js, NodeJS, PyTorch Audio Music: Digital Signal Processing, Max/MSP, JUCE, music21, Plugin Development

Data ML: Machine Learning, Transformer Architecture, CUDA, GPU Acceleration, Computer Vision

IoT Hardware: Arduino, Raspberry Pi, Sensor Integration, Wi-Fi Communication

Infrastructure: Git, CI/CD pipelining, Linux, macOS, Supabase, Firebase, AWS, GCP, Terraform, CDN, Cloudflare Tunnels,

AI Agents

EDUCATION

Purdue University

BS. Computer Science

Indianapolis, IN | may 2024