

Vrishn Viswa Sathyamoorthy

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Education

The Pennsylvania State University

Bachelor of Science in Artificial Intelligence Engineering

Indian Institute of Technology Madras

Bachelor of Science in Data Science and Applications

University Park, PA

Expected May 2028

India / Remote

Expected May 2028

Technical Skills

Languages: Python, Java, JavaScript/TypeScript, C#, SQL, HTML/CSS

Frameworks: React, Next.js, Vite, FastAPI, Node.js, Express

AI/ML: PyTorch, OpenAI API, Whisper API, LLM applications, RAG, prompt evaluation, agent workflows

Tools/Platforms: Git, GitHub, PostgreSQL, Supabase, Vercel, Linux/CLI, VS Code Extension API, Cursor

Technical Projects

MandatePass – *Next.js, FastAPI, PostgreSQL, OAuth/JWT, MCP*

- Designed a runtime authorization protocol for AI agents using scoped user mandates, bound tokens, service metadata, and signed execution receipts.
- Prototyped travel, procurement, and MCP authorization flows that separate user intent, agent execution, and counterparty verification.
- Defined a threat model covering agent impersonation, token replay, excessive permissions, counterparty spoofing, and payment escalation.

Cursor Prompt Enhancer – *TypeScript, VS Code API, Node.js, OpenAI, Whisper*

- Published a VS Code and Cursor extension for rewriting and transcribing developer prompts, reaching **1.5k+ marketplace downloads**.
- Implemented command-palette actions, configurable API endpoints, structured prompt rewriting, and reliable failure handling.
- Added Whisper-based speech-to-text and cross-editor support to convert voice input into editable developer prompts.

Nova Home Assistant – *React, Vite, FastAPI, Python, OpenClaw, LLM APIs*

- Built a voice-first home assistant that converts natural-language requests into contextual responses and executable tool actions.
- Developed the React/Vite interface and FastAPI backend for voice processing, conversation state, and request routing.
- Integrated OpenClaw-based workflows to connect conversational requests with external tools and home-automation actions.

MoEScope – *Python, PyTorch, OLMoE, Astro/MDX, Cloudflare Pages*

Open-Source ML Systems Lab

- Built an inspectable pipeline for tracing how Mixture-of-Experts router decisions become per-expert token workloads using a versioned routing schema.
- Implemented invariant validation and deterministic expert histograms for routed/shared experts, including capture of a real OLMoE routing event.
- Published an open systems journal documenting reproducible progress from routing traces toward grouped-GEMM workload compilation and GPU benchmarking.

Experience

Perplexity AI

AI Expert Advisor Fellow

State College, PA

Aug 2026 – Present

- Selected for Perplexity's AI Expert Advisor Fellows Program to deploy Perplexity Computer with local small businesses, identify operational bottlenecks, and build workflows that reduce back-office friction.
- Chosen for the Expert Advisor track to source and onboard businesses, connect owners' tools and data, automate recurring tasks, and train owners to run workflows independently.

KreupAI Technologies LLC

AI/ML Engineer Intern

Dubai, UAE / Remote

Jun 2026 – Aug 2026

- Contributing to DaftarAI, an LLM-powered copilot that supports accounting questions and workflows within the DaftarAccounting platform.
- Reviewing the existing agent codebase and tracing request flow across prompts, tool calls, APIs, and backend services.
- Implementing and testing improvements to prompt behavior, tool execution, integration reliability, and failure handling.

Perplexity AI

Campus Ambassador

University Park, PA

Aug 2025 – Dec 2025

- Led product demonstrations, workshops, and campus outreach reaching **500+ engineering and computer science students** at Penn State.
- Converted **20%+ of workshop attendees** into active users by teaching practical AI search and technical research workflows.
- Presented product capabilities through relevant use cases in coursework, coding, research, and technical problem solving.

Honors & Interests

Honors: Penn State College of Engineering Scholar

Interests: Consumer Tech & Hardware, Precious Metals, Pokémon Cards, Gaming, Golf, Hiking