

Praneeth Kukunuru

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EDUCATION

Purdue University

B.S. in Computer Science

West Lafayette, IN

May 2026

- **Cumulative GPA:** 3.72/4.00
- **Relevant Coursework:** Data Structures and Algorithms, Systems Programming, Competitive Programming

WORK EXPERIENCE

Talkdesk

Software Engineer

Palo Alto, CA

May 2024 - June 2026

- Built automated testing and internal evaluation for the new AI Agent Platform, making it 70% faster to test Agents.
- Engineered an integration with Cloud Campaign, enabling social media message routing into Talkdesk through SSO auth and Meta Webhooks, enhancing social listening capabilities and cross-platform service delivery.
- Designed and deployed an AI Agent tooling system that automates migration to Talkdesk's multi-agent platform, increasing onboarding efficiency and simplifying custom logic creation.
- Developed a real-time speech-to-speech AI system using Flask Sockets and audio streaming; integrated OpenAI, Azure, and ElevenLabs APIs to deploy multilingual voice interaction features.
- Built a full-stack Navigator Flow Builder, using Vite + React and Flask, allowing customers to configure AI-driven workflows with real-time recommendations — now actively used by over 30 clients.
- Delivered a secure messaging POC platform featuring authentication, session handling, and complete messaging workflow — part of ongoing enterprise security enhancement initiatives.

Caterpillar: TDM Corporate Partners - Purdue University

Project Lead (Teaching Assistant)

West Lafayette, IN

August 2025 - December 2025

- Led 4 interdisciplinary project teams focused on real-world agricultural challenges, coordinating deliverables, sprint planning, and technical documentation using Agile methodologies.
- Developing a multivariate AI forecasting model using transformer architectures and time series.
- Forecasted supplier risk that can inform hiring pipelines, cost/time savings, and upskilling opportunities.

John Deere: TDM Corporate Partners - Purdue University

Project Lead (Teaching Assistant)

West Lafayette, IN

January 2023 - May 2025

- Designed geospatial clustering algorithms with the H3 library and implemented a "Smart Merge" system to automatically unify overlapping agricultural field boundaries.
- Built robust pipelines to ingest and process large-scale environmental datasets, applying SQL, ArcGIS, Tableau, and Python data libraries to extract insights.
- Developed a predictive soil moisture model using XGBoost, integrating soil data and Meteostat weather APIs.

PROJECTS

Synq

Current

- Built a VS Code collaboration extension with 3,000+ downloads, alerting developers about overlapping edits and helping them avoid merge-conflicts in git repositories.
- Built AI-agent coordination tools that give agents shared awareness of other agents, active files, teammate changes, and conflict-prone code regions, helping them work together without overwriting each other.
- Won \$3,000 as a Top Ten Finalist at the Burton D. Morgan Venture Competition.

Periodt - MLH Hackathon Award Winner

March 2024

- Designed a native iOS app for tracking menstrual cycles, providing tailored educational insights for each stage.
- Engineered robust pre- and post-cycle tracking features with biometric authentication and secure local data storage using SwiftData, ensuring user data privacy.

SKILLS

Skills: Python, SQL, R, C, C++, Java, X86 Assembly, Swift, JavaScript

Tools: Numpy, RStudio, Pandas, Matplotlib, Seaborn, Agile, MS Office, SwiftData, Azure, OpenAI, Salesforce, LangChain