

Nihal Gunukula

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TECHNICAL SKILLS

Languages: Bash, C/C++, Dart, Golang, HTML/CSS, Java, JavaScript, Python, R, Solidity, SQL (Postgres)
Web development Frameworks: (E, Express, Next, Node).js, Flask, React, REST APIs, Springboot, Streamlit
App development Frameworks: Flutter, Kotlin, Swift, Unity Engine
Databases: Cloudinary, Firebase, MongoDB, PostgreSQL, SQLite
Distributive Technologies: Apache (Hadoop, Hive, Kafka, Spark)
Public Cloud: Amazon Web Services (Bedrock, EC2, Lambda, RDS, S3, SageMaker)
Developer Tools: Docker, Git, Grafana, IntelliJ, Kubernetes, Postman, Prometheus, PyCharm, Visual Studio Code

EDUCATION

Purdue University West Lafayette, IN
Bachelor of Science in Computer Science, Minor in Math, Certificate in Entrepreneurship Aug. 2023 – May 2026

- Scholarships & Recognition: CS Outstanding Student Freshmen Award, 2x Dean's List, 2x Semester Honors
- Leadership Positions: 2x Project Manager at ML@Purdue, Tech Lead at GDSC, Director of CAST at Anvil
- Coursework: Data Structures & Algorithms, Computer Architecture, Discrete Mathematics

WORK EXPERIENCE

Software Developer June 2024 – Present
OneCore San Jose, CA

- Expanded the relational database of 10,000+ childcare services using Python Playwright by 130% .
- Transformed data into a vector database, enabling LLM inferences and enhancing data utilization by 200%.
- Leveraged LLAMA for inferences on the vector database, boosting lead generation by 150%.
- Collaborated with data collection team to automate the data merging task saving the team 4 hours of work.

Software Developer August 2023 – May 2024
Indiana Soybean Alliance (Corporate Partnerships Data Mine) West Lafayette, IN

- Led a team of 5 to architect a full-stack platform using Python Streamlit, featuring 100+ Farmer Programs.
- Resolved a problem of duplicate programs by building a program-identifying algorithm, enhancing data integrity.
- Utilized LangChain for real-time updates, ensuring the website has the latest programs for farmers.
- Integrated with the Indiana Soybean Alliance main website, enhancing site traffic by 70%.

PROJECTS

VirtualYou | *Next.js, Python, Prometheus, Grafana, Kubernetes* June 2024 – Present

- Engineered a full-stack web application using Next.js and Python, providing users with an email assistant.
- Fine-tuned a T-5 model to generate auto-replies, summarizes, and auto-categorize emails for a user.
- Utilized Grafana and Prometheus for real-time alerts and monitoring of emails, improving user experience.
- Deployed Kubernetes to create a continuous data pipeline, training the T-5 model on users' emails.

Fred. | *Flutter, Firebase, Python* June 2024 – Present

- Developed a full-stack Flutter application enabling users to manage workflows and reflect on daily activities.
- Animated and developed a 3-D robot that utilizes Gemini to allow users to interact and make requests.
- Implemented federated learning to continuously train the model with new data while ensuring user privacy.

Lendify | *Next.js, Golang, SQLite, Apache (Spark, Hive, Kafka), Coinweb* June 2024 – Present

- Built a full-stack platform using Next.js and Golang, enabling anonymous borrowing and lending of money.
- Integrated blockchain technology (Coin-Web) to provide lenders with real-time visibility of their funds.
- Leveraged Golang to process transaction data and loan details, utilizing Apache Spark, Hive, and Kafka to ensure secure and efficient data management.

DailyWins | *Swift, Firebase* June 2024 – Present

- Created a fullstack IOS application with Swift and Firebase allowing users to make and complete daily habits.

OpenSpaces | *Next.js, PostgreSQL, Cloudinary* August 2023 – Present

- Bootstrapped a full-stack platform with Next.js for users to buy and sell storage space efficiently.
- Implemented user data storage in a PostgreSQL database, supporting secure login via Gmail or GitHub with two-factor authentication and password generation.