

Krutartha Nagesh

+1 929-684-9019 • krutartha2002@gmail.com • [linkedin](#) • [portfolio](#) • Syracuse, NY

EDUCATION

Syracuse University – Syracuse, NY

B.S. in Computer Science

May 2025

GPA: 3.8/4.0

SKILLS & CERTIFICATIONS

- **Programming Languages:** Python, Java, Javascript/Typescript, C/C++, SQL
- **AI/ML Frameworks:** Numpy, Pandas, Scikit-learn, TensorFlow, PyTorch, R, Keras, HuggingFace, LangChain
- **Web-related Frameworks:** React/Next.js, React Native, Tailwind, Payload, Shadcn, Node, MongoDB, PostgreSQL
- **Other:** Git, Jira, Trello, Docker, Bash, Figma, Confluence, MochaJS, JUnit, StoryBook
- **Certifications:** AWS Cloud Practitioner, Azure AI fundamentals (in-progress)

EXPERIENCE

Founding Engineer - PapeX | Remote

April 2025 - Present

- Architecting key features of a digital receipt management platform using React Native (mobile) and Next.js (web)
- Designing and managing scalable SQL and NOSQL databases, prioritizing security, storage, and retrieval of transactional and financial data.
- Collaborating closely with the founding team to define product roadmap and technical architecture, leading end-to-end implementation of core backend services and user-facing features.

AI/ML Researcher - Syracuse University | Syracuse, NY

Jan 2023 - May 2025

- Enhanced **LLM explainability** incorporating **RAG framework** in **PyTorch** and **HuggingFace**, to improve transparency, interpretability, and trust in predictions
- Compared **XAI methods** like **LIME**, and **SHAP** leveraging **PyTorch**, for feature relevance analysis and evaluation
- Improved data usability, using **NumPy**, **Pandas**, and **Scikit-learn**, leading to increased performance in NLP tasks

Software Solutions Technician - ITS (Syracuse University) | Syracuse, NY

Dec 2022 - May 2025

- Resolved **10,000+ client issues** utilizing **Jira** in an **Agile** environment, to ensure documented debugging and resolve
- Conducted **software training and education** for clients, improving usage and reducing repeat issues by 40%
- Documented workflows in **Confluence**, improving maintenance and accessibility by 60%, leading to faster resolutions

Software Engineer - TraceX Technologies | Bangalore, India

Aug 2020– Jan 2021

- Delivered 5+ features for a blockchain-based food supply chain platform, boosting scalability and efficiency
- Built a RESTful API and designed 500+ API endpoints, optimizing data flow and reducing response times
- Conducted unit testing using MochaJS and Chai.js to catch and debug issues, improving API robustness by 30%

PROJECTS

OpenNote | React Native, Java, JUnit, SpringBoot, Firebase

[View Project](#)

- Developed a **cross-platform mobile app** for notes sharing, leveraging data storage and management techniques
- Optimized performance by utilizing **Firebase** for real-time **data syncing** and **secure user authentication** pipeline

EchoScope | Numpy, Pandas, Scikit-learn, TensorFlow, Keras

[View Project](#)

- Developed an **NLP tool** that analyzes sentiment trends and potential echo chambers within Reddit communities
- Leveraged **Reddit API**, **NLTK**, **TF-IDF**, and visualization techniques to analyze subreddit dynamics and polarization

InstaScribe | Python, BeautifulSoup, InstagramAPI

[View Project](#)

- Built a scraper in Python using the InstaLoader package, to automate data extraction from public Instagram profiles
- Integrated GenAI-based approaches, utilizing Groq Cloud API to automate summaries of Instagram post captions

TAH | Next.js, Typescript, Tailwind, Payload CMS

[View Project](#)

- Built a full-stack website using modern **web development best practices**, to deliver a seamless user experience
- Implemented **dynamic content management** features, enabling scalability and flexibility for content updates

AWARDS & RECOGNITION

- CuseHacks 2024 | Grand Prize Winner
- Oak Codefest | Grand Prize Winner
- Stonehill Codeathon | Grand Prize Winner
- Tau Beta Pi | Honorary Member