

# Keerthana Belthur Parthasarathy

+1 (315)-718-2385 — [keerthanaparthasarathy23@gmail.com](mailto:keerthanaparthasarathy23@gmail.com) — [LinkedIn](#) — [Github](#)

## SUMMARY

Product-minded Software Engineer blending **design intuition and full-stack engineering** to rapidly prototype and ship customer-facing B2B tools. Experienced in building **interactive web applications, AI-powered workflows, and data-driven visualization systems** using React, TypeScript, Python, and cloud-native services. Strong bias toward ownership, pixel-level precision, and translating complex data into intuitive digital experiences with real-world impact.

## EDUCATION

- Syracuse University, Syracuse, NY** **Aug 2024 – May 2026**  
M.S. in Computer Science **CGPA: 3.85**  
*Relevant Coursework:* Applied Algorithms, DBMS, Computer Architecture, Artificial Intelligence, Machine Learning
- Visvesvaraya Technological University, Bangalore, India** **Aug 2019 – May 2023**  
B.Tech. in Information Science **CGPA: 3.4**  
*Relevant Coursework:* Data Structures and Algorithms, Web Development, Machine Learning, Cloud Computing, Networking

## EXPERIENCE

**Ursamin, Inc.** **February 2026 – Present**  
*Software Engineer Intern*

- Defined and executed a delivery plan to stand up a **net-new, isolated Azure Production environment**.
- Provisioned cloud infrastructure using **Infrastructure-as-Code (IaC)** to ensure repeatable, consistent deployments.
- Built **CI/CD pipelines** with gated promotion from **QA to Production**, including validation and rollback controls.
- Implemented production basics: **secrets management, monitoring, logging**, and operational runbooks.

**Deloitte Toucheé Tohmatsu Limited** **July 2023 – August 2024**  
*Software Engineer – Data/ETL (Supply Chain and Network Operations)*

- Built scalable **Python + SQL ETL pipelines** on multi-million-row datasets, improving forecast accuracy by **30%**.
- Automated manual reporting workflows, reducing operational effort by **40%** and enabling near real-time insights.
- Developed executive dashboards using **SQL and Python** for fast ad-hoc analysis and KPI tracking.
- Added structured **logging and alerting**, reducing data pipeline downtime by **25%**.

**ABB Pvt Ltd** **February 2023 – May 2023**  
*Software Engineer Intern*

- Enhanced the *Energy Manager* platform using **TypeScript, JavaScript, and REST APIs**, reducing latency by **20%**.
- Automated regression testing with **Selenium**, cutting QA cycles by **25%**.
- Built real-time dashboards to visualize system health and performance metrics.
- Improved delivery reliability through **Git-based CI/CD** and structured testing practices.

## PROJECTS

### ADHD & Dyslexia-Friendly AI Accessibility Platform

- Designed and built a **React + FastAPI** interactive platform transforming uploaded PDFs into cognitively optimized reading experiences.
- Crafted pixel-precise UI components with dynamic pagination, highlighting, and keyboard navigation for seamless interaction.
- Implemented real-time backend text processing pipelines in Python to ensure sub-200ms response times.
- Conducted user feedback iterations to refine UX and improve engagement metrics.

### PDF RAG System – AI-Powered Interactive Knowledge Tool

- Built an AI-driven **interactive document intelligence tool** using Python and LLM-based retrieval workflows.
- Designed modular REST services enabling rapid feature experimentation and integration.
- Improved answer relevance by 35% through optimized semantic search and ranking strategies.
- Iterated quickly on UI/UX flows to create intuitive, production-ready customer experiences.

### Geospatial Data Visualization Prototype

- Developed a **React + TypeScript** interactive geospatial visualization tool rendering dynamic data overlays.
- Implemented efficient data transformation pipelines to handle large coordinate-based datasets.
- Optimized rendering performance for smooth user interaction across varying zoom levels.
- Collaborated with stakeholders to refine interface flows and ensure intuitive data exploration.

## SKILLS

**Languages:** Java, Python, SQL, JavaScript, TypeScript

**Frontend:** React, UI/UX Design, Interactive Prototyping, Pixel-Perfect Styling

**Backend:** FastAPI, REST APIs, Data Processing Pipelines

**AI/Automation:** LLM Integration, RAG Workflows, Prompt Engineering

**Data/Visualization:** Geospatial Data Handling, Dynamic Rendering, Interactive Dashboards

**Cloud/Tools:** Docker, CI/CD, Git, Agile Development