

NEERAJ SAI KONDAVEETI

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EDUCATION

University of Illinois Urbana-Champaign

Master's in Information Management

Aug 2024 - May 2026

Relevant Coursework: Data Structures & Algorithms, Systems Analysis, Data Science and Statistical Models, Information Modeling, Exploratory Data Analysis (EDA), Data Visualization, Methods of Data Science, Relational Databases.

TECHNICAL SKILLS

- Languages & Systems:** Java (multi-threading, OOP, API integration), Python (Pandas, NumPy, Scikit-learn), C/C++, SQL (PostgreSQL, Oracle, BigQuery, Cassandra, MongoDB), MATLAB/Simulink, PHP, .NET, Go, Ruby
- Core Competencies:** Data Structures & Algorithms, Object-Oriented Design, Risk & Analytics Systems, ETL Pipelines, Predictive Modeling & Optimization, Real-time Data Visualization, System Performance Tuning, E-commerce Systems
- Frameworks & Tools:** React.js, Redux, Next.js, Vue.js, FastAPI, Node.js, AWS Amplify, AWS Lambda, Google Cloud Platform (GCP), Git, JIRA, Lucidchart, Tableau, Power BI, Kubernetes, Application Security
- Simulation & Systems:** Real-time Data Processing, Kafka (event streaming & messaging pipelines), HIL/SIL Testing, Anomaly Detection, System Modeling, Mobile Development (React Native, Swift for iOS, Kotlin for Android)

WORK EXPERIENCE

University of Illinois Veterinary Medicine – Student Data Engineer

Aug 2025 – Present

- Designed and implemented an NL2SQL Agent Prototype integrating Python, SQL, and LLMs; developed a multi-threaded CLI tool to convert natural language questions into optimized queries.
- Applied object-oriented design principles in building reusable query parsing and schema validation modules.
- Conducted performance benchmarking across 10M+ records, tuning indexing and caching to reduce execution latency by 30%.
- Collaborated with faculty researchers on real-time data visualization platforms, improving decision-making for veterinary clinical trials.
- Contributed to design discussions on database schema evolution and API integration with external research datasets.

Chinchilla AI – AI Software Engineer Intern

Jul 2025 – Sep 2025

- Developed full-stack software systems with React.js, FastAPI, and AWS, delivering scalable, production-ready AI applications.
- Implemented real-time streaming APIs for LLM inference pipelines, enabling concurrent request handling and low-latency responses (<200ms).
- Implemented multi-threaded Python services for asynchronous data ingestion and batch processing.
- Conducted profiling and optimization of backend APIs, achieving 25% throughput increase.
- Partnered with senior engineers to refactor core modules for maintainability and scalability under high-load environments.

Capgemini – Senior Data Analyst

Jun 2022 - Aug 2024

- Engineered and optimized SQL ETL pipelines supporting procurement/finance operations with multi-million record datasets.
- Led development of automated reporting platform (Python + Oracle SQL), designed using modular, OOP-based architecture for maintainability.
- Built and tuned data integration APIs connecting Oracle EBS with third-party tools, improving system performance by 40%.
- Collaborated with engineering teams to design system monitoring dashboards and scenario models for supply chain risk management.
- Conducted statistical analysis and root cause modeling that improved forecasting accuracy and reduced reporting error rates.

Capgemini – Data Analyst Intern

Jan 2022 - Jun 2022

- Processed 50K+ IoT sensor logs, developing a Java prototype anomaly detection system that applied multi-threading for concurrent stream processing.
- Designed portfolio management system in SQL + Python, integrating RnD KPIs & resource models, reducing project overlap by 15%.
- Built end-to-end data visualization dashboards integrating streaming pipelines with front-end UIs, enabling faster insights and scenario modeling for stakeholders.
- Created technical documentation and validation frameworks for engineering system enhancements.

Noobtron – Research & Development Intern

Sep 2021 - Jan 2022

- Programmed a Python + AWS NLP chatbot with modular API design, automating 35% of query responses.
- Built and tested REST APIs with authentication layers, improving robustness of educational content tracking system.
- Contributed to code reviews, version control best practices, and Agile sprint planning, ensuring robust, scalable software solutions aligned with business needs. Documented model behavior and results for future optimization and A/B testing.
- Assisted in optimizing ML data pipelines for real-time recommendation use cases.

ACADEMIC PROJECTS

Omnichannel Retail Platform Optimization – Macy's Tech Simulation

- Enhanced e-commerce platform performance across supply chain, merchandising, and mobile channels in an Agile environment.
- Built real-time pipelines (Kafka, PostgreSQL, MongoDB) to sync inventory, boosting product availability accuracy by 25%.
- Developed customer-facing features with React.js, Redux, and Node.js, and optimized mobile experiences using React Native, Swift, and Kotlin.
- Conducted system performance tuning and predictive modeling for seasonal spikes, reducing downtime risk by 40%.