

Anish Thiriveedhi

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EDUCATION

University of Illinois Urbana-Champaign

Champaign, IL

Bachelor of Science in Computer Science + Linguistics, GPA: 3.6/4.0

May 2025

- **Relevant Coursework:** Data Structures, Algorithms, Software Design, Computer Systems, Discrete Structures, Applied Machine Learning, Linear Algebra, Distributed Systems, Functional Programming

EXPERIENCE

Machine Learning Engineer Intern

February 2025 – April 2025

StellarPay (Early-Stage Startup)

Remote

- Built a **GPT**-powered financial assistant in **TypeScript/Node.js**, leveraging a **Retrieval-Augmented Generation (RAG)** system with **engineered prompts** to deliver precise, context-aware insights
- Architected **serverless microservices** on **AWS** (Lambda, S3, **RESTful API Gateway**, DynamoDB) to optimize the **LLM**, achieving average query latencies under **500ms** and ensuring scalability
- Enhanced retrieval precision by **40%** using **AWS Textract** for document ingestion and **OpenAI Embeddings** with **Pinecone** for high-performance semantic search

Full-Stack Developer Intern

June 2024 – August 2024

M&T Bank

Buffalo, NY

- Engineered a **JavaScript** and **Java** code generator to streamline **Spring Boot** backend architecture, reducing setup time by **85%** and improving code quality by **45%**, ensuring scalability
- Designed and implemented an archival search dashboard in **Angular**, enabling instant retrieval across **15,000+ SQL stored records**, cutting search time from **minutes to seconds**
- Collaborated on the development of an **AI chatbot** into the bank's service portal using **Python** and **GPT-4o**, guiding new users through onboarding and troubleshooting, reducing support ticket volume by **30%**

Software Engineer Intern

May 2023 – August 2023

Brunswick Corporation

Champaign, IL

- Developed a boating simulation for CES 2024 using **Unreal Engine** and **C++**, showcasing real-time autonomous navigation and interactive controls to **50,000+ attendees**
- Boosted user engagement from **40% to 85%** by integrating an interactive touch interface, allowing users to customize immersion levels, adjust boat settings, and interact with **AR** pop-ups
- Implemented **TCP** communication using **WebSockets** and **multithreading**, reducing latency by **40%** and ensuring seamless real-time interactions across multiple systems

PROJECTS

SEC Insights Engine | [GitHub](#)

March 2025

- Developed a containerized (**Docker/Compose**) full-stack application using **Next.js/TypeScript** and **FastAPI** to enable natural language querying of SEC filings
- Implemented the core **RAG** pipeline and a specialized **SEC Agent** using **LangChain**, **OpenAI** models, and **ChromaDB** for semantic search, citation generation, and complex multi-step financial analysis
- Built an automated **ETL** pipeline using **Python** and the **SEC Edgar API** for data ingestion, performing extraction, text cleaning/transformation, and loading processed chunks into ChromaDB

Sentiment Analysis on IMDb Movie Reviews | [GitHub](#)

September 2024

- Built an **NLP**-based sentiment classifier on **25,000 IMDb reviews**, leveraging **machine learning** for text analysis
- Optimized **Naive Bayes** and **ANN** models with **Scikit-learn** and **TensorFlow**, achieving **88%** accuracy and reducing error by **36%** through **Keras Tuner**
- Applied text preprocessing and feature extraction with **NLTK**, **Pandas**, and **SciPy**, visualizing insights with **Matplotlib**

MyHousing | [GitHub](#)

September 2022

- Developed an apartment search platform with **React**, **Django**, and **PostgreSQL**, enabling real-time housing comparisons
- Integrated an interactive map with **Google Maps API**, displaying **1,000+** listings based on pricing and location filters

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C/C++, C#, SQL/NoSQL, Java, Dart, HTML/CSS, Haskell

Frameworks & Libraries: React, Node.js, Next.js, Angular, Spring, .NET, Django, TensorFlow, Scikit-learn, LangChain, Pandas

Developer Tools & Technologies: Git, Docker, AWS, Firebase, Pinecone, ChromaDB, OpenAI, Kubernetes, Postman

Specialized Skills: Full-stack Development, Machine Learning, NLP, Cloud Computing, API Design