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, API Gateway, DynamoDB)** to optimize the **LLM**, ensuring scalability and high availability for global transactions
- Enhanced retrieval precision by **40%** using **AWS Textract** for document ingestion and **OpenAI Embeddings** with **Pinecone** for high-performance similarity search
- Developed **CloudFormation** templates and **automated deployment** scripts, improving deployment reliability and reducing infrastructure setup time by **70%** compared to manual processes

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%**

Lead Infrastructure Staff   September 2022 – May 2024
Illinois Design Challenge   *Champaign, IL*
- Orchestrated the Midwest's largest engineering challenge, hosting **200+ participants** and securing **$20,000 in sponsorships** by partnering with industry sponsors and university departments
- Led a team of 4 in **Agile** development to build a **React** and **.NET** based event platform, supporting **200+ concurrent users** and ensuring seamless live challenge execution
- Implemented automated **CI/CD** pipelines with **Docker** and **Jenkins**, reducing deployment time by **35%**

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

Sentiment Analysis on IMDb Movie Reviews | *GitHub*   September 2024 – December 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 – December 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
- Built a **Django REST** backend for secure user authentication and data transactions, implementing **JWT** and **bcrypt**

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C/C++, C#, SQL/NoSQL, Java, Dart, HTML/CSS, Haskell
Frameworks & Libraries: React, Node.js, Angular, Spring Boot, .NET, Django, TensorFlow, Scikit-learn, Pandas, NLTK, Keras
Developer Tools & Technologies: Git, Docker, AWS, Firebase, Pinecone, OpenAI, Kubernetes, Postman
Specialized Skills: Full-stack Development, Machine Learning, NLP, Cloud Computing, AR/VR Development, API Design