

Anish Thiriveedhi

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EDUCATION

University of Illinois Urbana-Champaign

Champaign, IL

Bachelor of Science in Computer Science + Linguistics

May 2025

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

EXPERIENCE

Software Engineer 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 under a second**
- 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

AI/ML Engineer

September 2021 – May 2023

Neurotech at Illinois

Champaign, IL

- Designed a **VR** environment in **Unreal Engine**, enabling **EEG-driven** user interactions through facial movements
- Developed a **single-layer neural network** with **Python** and **TensorFlow**, achieving **97%** accuracy in interpreting brainwave data for VR control via iterative optimization
- Optimized model efficiency by **30%** through fine-tuning, enabling real-time **AI processing** on a VR headset

PROJECTS

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

September 2024 – December 2024

- Built a sentiment classification model using NLP techniques on **25,000 IMDb reviews**, applying **machine learning and deep learning** pipelines for text analysis
- Optimized **Naive Bayes** and **ANN** models, with the latter achieving **88.0%** accuracy and reducing error rate by **36%**, leveraging hyperparameter tuning with **Keras Tuner**
- Implemented and deployed models using **TensorFlow/Keras**, demonstrating expertise in AI model evaluation and optimization

MyHousing | [GitHub](#)

September 2022 – December 2022

- Developed a **full-stack** apartment search platform with **React**, **Django**, and **PostgreSQL**, enabling real-time user interactions and housing comparisons
- Integrated an interactive map, with the **Google Maps API**, that displayed **1000+** housing options based on pricing and location data, streamlining the user's search process
- Built a **Django REST** backend to handle user authentication, registration, and secure data transactions, implementing **JWT** for authentication and **bcrypt** for password hashing

TECHNICAL SKILLS

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

Frameworks & Libraries: React, Flask, Angular, Spring Boot, .NET, Django, Tailwind CSS, TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib, SciPy, Keras

Developer Tools & Technologies: Git, Docker, Firebase, Azure, AWS, Kubernetes, Jenkins, Postman

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