Mohan Krishna Srinivasula

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EDUCATION

University of Illinois Urbana-Champaign — Champaign, IL
B.S. in Computer Science and Mathematics — *Expected Graduation: May 2028*

EXPERIENCE

University of Illinois Chicago (MaSE Lab) — June 2025 – Aug. 2025
Automation Software Intern — *Chicago, IL*
- Automated microscope stage movement using **Python** and **OpenCV**, **reducing manual alignment time by 70%** for chemical fluid-distribution systems with precise **X-Y axis robotic control**
- Engineered a **computer vision pipeline** achieving **95%+ well-detection accuracy**, identifying and centering manifold wells across **100+ experimental samples** to boost experiment reliability
- Integrated **real-time microscope imaging** with robotic control to streamline experimentation and **reduce manual adjustments.**

AiC Company — Mar. 2024 – Aug. 2024
Full-Stack Web Development Intern — *San Francisco, CA*
- Built **e-commerce components** using **JavaScript, Node.js, and SQL** for a startup delivering **HLS and WebRTC** services for soccer streams
- Implemented a **pay-per-view/per-language** feature for the HLS player using the **Stripe API**
- Developed a **multi-page store** with live customer support chat, **reducing user drop-off by 20%**
- Increased **verified user signups by 35%** by creating a two-factor system with **Twilio SMS verification**

PROJECTS

Safetress AI | *Python, OpenCV, MediaPipe, DeepFace, Twilio, ML/NLP, Gemini* — July 2025 – Aug. 2025
- Engineered an **AI-powered safety system** that **detects distress signals**, including the universal distress hand signal, negative emotions, and negative sentiment inferred from lip-movement speech
- Integrated the **Twilio API** to instantly **alert designated emergency contacts** through SMS and/or phone calls with **real-time location data** and summary statements of detected distress indicators
- Leveraged **Gemini** to generate intelligent **summaries of visual and verbal distress cues**, enhancing situational awareness for emergency response

Verbexa AI | *React.js, Supabase, Next.js, Typescript, Clerk, Vapi, Stripe* — June 2025 – July 2025
- Developed a platform that allows the creation of **tutoring companions** that deliver interactive learning sessions
- Leveraged the use of **AI voice agents** through **Vapi** for real-time conversations with each companion
- Utilized **Supabase** for companion storage for each user

SoccerRanker | *Javascript, Node.js, Bootstrap, Render* — July 2024 – Aug. 2024
- Developed a interactive soccer website featuring player rankings, rank explanations, and **80+** unique "Would You Rather" questions with percentage data gathered from **750+ reddit survey responses** for multiple clubs
- Developed a soccer **REST API** in addition to the website, showing player profiles with multiple filter options, real-time global soccer news retrieval, and supporting **all CRUD operations**

ACTIVITIES AND LEADERSHIP

SIG AI Project Lead — Oct. 2024 – Dec. 2024
UIC Association For Computing Machinery — *Chicago, IL*
- **Led a team of four** to build a **sentiment analyzer** using a **RoBERTa Python model**, accessible through the **Hugging Face** Transformers library.
- Processed **1,000+ Amazon reviews**, analyzed data, applied **machine learning**, and integrated the **Google Translate API**, expanding model accessibility to **100+ languages.**

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C/C++, HTML, CSS
Frameworks/Libraries: React.js, Node.js, Next.js. Scikit-Learn
Databases and Tools: SQL, AWS, Git, Google Cloud Platform, Render, Postman, AI Tools (Claude, Gemini)
Core Computer Science: Data Structures, Object-Oriented Programming, Algorithms