






SANKETH SEQUEIRA

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Work Experience

Computer Specialist I **UIC - School of Public Health** *Chicago, USA* **12/2025 - Present**

- Researching, designing, and developing **ASP.NET(C#)** web features and **SQL database** components to support ongoing projects.
- Maintaining and improving the **existing multi-platform websites and applications** through **fixes and feature improvements**.

Software Engineer, Intern **KreedaLoka** *Bangalore, India* **07/2023 - 12/2023**

- **ChessEra**: Multi-Platform game client and server development.
 - Designed and developed an arena pairing mode for ChessEra using **Java**, **C#**, and **Unity2D**, implementing **real-time data handling** to improve matchmaking efficiency.
 - Drafted **product specifications document**.
 - Designed the **game objects**, implemented **real-time leaderboard updates** and developed the **pairing system**.
 - Stored, managed and retrieved user information for pairing using **SQL**.

Education

Master of Science **University of Illinois at Chicago** *Chicago, USA* **08/2025 - 05/2027**

- Major in Computer Science.
- CGPA – 4.0/4.0

Bachelor of Engineering **Global Academy of Technology** *Bangalore, India* **12/2021 - 07/2025**

- Major in Information Science and Engineering.
- CGPA – 9.02/10

Projects

OBDPlus [Github](#) **12/2025**

- Built an AI-powered OBD-II diagnostic assistant that works with any **\$10–\$20 ELM327 adapter**.
- Uses **LLMs** and **GenAI** to explain **engine issues** in plain English and **recommend actionable fixes**, not just code definitions.
- Helps users avoid **\$120–\$230** per diagnostic visit and eliminates recurring subscription costs common in commercial scanners.

DocBot [Github](#) **09/2025**

- Created an AI-powered developer assistant using **LLMs** and **Retrieval-Augmented Generation (RAG)** to answer **natural-language questions** across documentation for **10 popular Python libraries**.
- Grounds responses in verified source content to **prevent hallucinations** and ensure **high factual accuracy**.
- Combines **PostgreSQL**(for user data, logs, etc.) with **vector embeddings** for precise retrieval.
- Makes it faster and easier for developers to understand and use Python libraries **without manual documentation search**.

DataGuard [Github](#) **02/2025**

- Developed an **NER-based application** to detect and **mask personal and medical information**, enabling **privacy preserving** GenAI workflows while maintaining high-quality model outputs.
- Implemented a **hybrid pipeline** using regex (emails), phone number detection, spaCy NER, and SciSpacy to **anonymize data without losing contextual meaning**.

Skills & Interests

- **Programming Languages**: C# | Java | Python | C++ | C | MySQL | HTML | CSS
- **Libraries**: Pandas | Numpy | Matplotlib | Scikit-Learn | Keras
- **Developer tools**: Git | GitHub | Unity 2D | Jira | VS Code | Eclipse | Google Colab
- **Core skills & Technologies**: Data Structures | Algorithms | RESTful APIs | .NET | ASP.NET
- **Soft skills**: Problem Solving | Teamwork | Critical Thinking | Adaptability | Growth Mindset

Publications

- Sequeira, S., Adiga, T. B., Pattanashetti, N. V., Ramesh, M., Kodipalli, A., Rao, T. (2024) **Enhanced Detection of Thyroid Cancer Recurrence: Evaluating Multiple Classifiers and Interpreting with Explainable AI**, IEEE 4th Mysore Sub Section International Conference, Mysore, India, August 2024. (Paper selected and presented at the Conference)

Awards

- **Gold Award**: Won 1st place at a hackathon called **BroCode** conducted by the college for all its students. **(07/2023)**
- **Gold Award**: Secured 1st place at a **blockchain hackathon** for a Blockchain Inventory Management website. **(03/2023)**
 - Conducted as a part of a workshop by **NITK (National Institute of Technology Karnataka)**, **Suratkal** on blockchain.
- **Bronze Standard**: Achieved the Bronze Standard in **The Duke of Edinburgh's International Award** by engaging in community volunteering, improving physical fitness, acquiring new skills, and completing an adventurous trek. **(02/2019)**
 - The trek took place at **Ramanagara Hills**, around 50 kilometers from Bangalore.