Karthik Reddy Vemireddy

karthikmasters444@gmail.com | +1 (945) 274 8248

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EDUCATION

Florida State University   **August 2023 – May 2025 (Expected)**
Masters of Science, Computer Science   Tallahassee, FL

International Institute of Information Technology   **August 2018 – July 2022**
Bachelor of Engineering, Computer Engineering   Bhubaneswar, India

TECHNICAL SKILLS

Programming Languages: C, C++, Python, JavaScript, HTML, CSS,PHP
Databases: SQL(MySQL, PostgreSQL) NoSQL (MongoDB)
Technologies/Frameworks: Angular, React, Ionic, Nest.js,Tailwind css,Firebase
Developer Tools: Windows, Linux, Git, VS Code

WORK EXPERIENCE

Research Assistant   **May 2024 – Present**
Biglab @ FSU (Prof. Michael Gubanov, Dept. of Computer Science)   Tallahassee, FL

- Contributed as a key developer to a cancer knowledge graph (cancerKG.org) by retrieving and structuring cancer datasets from PubMed for use in medical research and frontend applications.
- Built and managed frontend systems enabling keyword-based searches for rare cancer papers, streamlining data access for oncologists.
- Technologies: MongoDB (data storage and querying), Python (data retrieval from PubMed/arXiv), PHP, HTML, JS (frontend development).

Software Developer   **Jan 2022 – July 2023**
Maximl Labs Pvt. Ltd   Benguluru, India

- Led frontend development for "Syncops," Maximl's deskless workflow platform, rewriting 75% of the codebase, which reduced user onboarding time by over 50%.
- Implemented the 'Dynamic Critical Path' feature using Angular and graph breadth-first search, enhancing process efficiency by 70%.
- Accelerated development by utilizing ng-zorro and Tailwind CSS, cutting development time by 50% and improving the platform's aesthetics.
- Collaborated closely with UX designers to integrate features, resulting in a 30% improvement in frontend performance and user experience.

Junior Web Developer - Intern   **April 2021 – May 2021**
Mydukan   Hyderabad, India

- Developed foundational skills in Angular and Ionic through hands-on web development projects.
- Implemented user authentication systems, enabling seamless deployment across web and mobile applications.
- Utilized Firebase to securely manage user credentials, doubling data retrieval speed and improving application responsiveness.

PROJECTS

Motion Picture (React, Material-UI)   **December 2021**
- Developed a web application that provides detailed information about movies and TV series using the moviedb API.

Expense tracker (React.js)   **July 2021**
- Created a React.js application for tracking daily expenses, featuring a visual breakdown of spending by month.

ADDITIONAL INFORMATION

– Proficient in competitive programming using C++,secured a rank of 469 globally in july long challenge 2020 codechef.
– Cleared GATE CS 2022 paper with distinction.
Relevant Coursewor: Algorithms, Data Structures, Databases, Object-Oriented Programming, Operating Systems