S.Ganapathi Subramaniam (Gana)

ganasubs98@gmail.com | 312-826-7069 | LinkedIn | Github

Education

Illinois Institute of Technology, Illinois – United States of America   **2023 – 2025**

Master's in Computer Science, Specialization in Software Engineering

Coursework: Data Processing & Analysis, Software System Architecture, Big Data Technologies, Advanced Database Organization, Mobile Application Development

SASTRA University, Tamil Nadu – India   **2016 – 2020**

Bachelor of Technology, Mechanical Engineering

Coursework: Web Applications Development using Java, Management Information Systems, Industrial Robotics, Operation Research

Work Experience

Software Engineering Intern | Syndigo LLC | Chicago, Illinois   **Jun 2024 – Nov 2024**

- **Developed a low-code automation framework** enabling citizen testers to independently create and execute test cases, increasing automation coverage by 20%.
- Orchestrated a continuous testing pipeline with 80% API coverage by automating 25+ APIs and 100+ scenarios using **Python** and **Playwright**, ensuring data consistency and business alignment.
- Created a validation module automating checks for 25+ APIs in **AWS** storage, ensuring 100% data transformation accuracy across multiple products.
- **Operationalized end-to-end (E2E) automation**, achieving 40% UI test coverage post data model synchronization, enhancing overall testing efficiency and system accuracy.

Software Engineer | Cognizant Technology Solutions | Bangalore, India   **Aug 2020 – Jul 2023**

- Designed and Engineered an extensible **Automated Reporting System** using **Python** and **HTML/CSS** for senior leadership, cutting manual effort and reporting time by 95%.
- Implemented **automation for 200+ regression test cases** and added new scenarios each sprint, increasing coverage by 40% and maintaining test quality.
- Developed a **reusable Test Automation Framework** with **Python** and **Robot Framework**, improving testing efficiency and slashing regression effort from 70 to 3 man-days.
- Spearheaded adoption of automation frameworks across client projects, boosting offshore collaboration and enabling effective resource management by the senior leadership team, ultimately improving project delivery.
- Orchestrated sprint-wise functional demos, expediting production deployments by 1 week each and improving stakeholder alignment and trust.

Key Projects

AutoApplyLn   Repository

- Developed a tool that **automatically filtered and applied to relevant LinkedIn job postings**, reducing user effort by 80%.
- Enabled the tool to run in the background, allowing users to focus on other tasks while the tool **works autonomously**.
- Created a comprehensive reporting feature that generates HR contacts, enabling users to **track job applications and build a valuable professional network.**

TacTics - twist to classic Tic-Tac-Toe   Repository | Download APK

- Designed and developed a multi-variant Tic-Tac-Toe app in **Flutter** with efficient game logic and **responsive UI**.
- **Integrated AI opponent** using adversarial search (**Minimax algorithm**), enabling intelligent single-player gameplay.
- Optimized win/loss/draw evaluation with $O(1)$ time and space complexity for **high-performance** updates.
- Built a scalable, reactive architecture supporting rule variation, stacking, and dynamic board interactions.

Skills

Languages - Python, SQL, JavaScript, Java, HTML, CSS, Dart

Frameworks - Flutter, Flet , Kivy, Angular, MySQL, PostgreSQL, Selenium, Robot Framework, Playwright, Bootstrap

Tools & Technologies - Jira, Git, Postman, MS Office, AWS, Docker, IBM Watson

Extra – Curricular & Volunteering Activities

- Head of Innovation & Entrepreneurship Club | Illinois Institute of Technology   **Sep 2023 – May 2025**
- Software Engineer at SEDS (IIT Rocketry Club)   **Sep 2023 – May 2024**