SEKULRAJ S

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EDUCATION

Rathinam Technical Campus   **Coimbatore, TN**
Bachelor of Technology - Artificial Intelligence and Data Science; GPA: 7.71   *Nov 2021 - June 2025*

PROFILE SUMMARY

Passionate and skilled in Artificial Intelligence, Web Development, Python Programming, and UI/UX Design, with a focus on Data-Driven Design and AI Prompt Architecture. Experienced in creating visually appealing, user-centric web applications with strong attention to visual aesthetics and seamless user interaction. Dedicated to continuous learning and delivering high-quality, efficient solutions across modern development frameworks.

SKILLS SUMMARY

- **Technical Skills:**
    - **Programming Language:** Python, JavaScript, TypeScript
    - **Frontend Development:** HTML, CSS, JavaScript, React.js, Bootstrap, Responsive Design
    - **Backend Development & Database Management:** Node.js, Express.js, MongoDB (NoSQL)
- **Soft Skills:** Problem-Solving, Effective Communication, Decision-Making, Stakeholder Management, User-Centered Design, Continuous Learning, Code Optimization.

CERTIFICATION

- **Data Science and Analytics —** HP Life
- **Artificial Intelligence -** Edu net
- **UX —** Accenture
- **Web Development —** GUVI
- **KT-Nest —** React.js
- **Prompt Engineering** – Learn Prompting

PROJECTS

- **Restaurant Website |** HTML, CSS, JavaScript, Responsive Design **|** Live Site
    - Designed and developed a fully responsive restaurant website, improving mobile usability by **90%** and reducing bounce rate through optimized UI and clear navigation.
    - Structured **5+** key sections to enhance user experience and increase visitor interaction by an estimated **60%.**
- **Snake Game |** HTML, CSS, JavaScript, DOM Manipulation **|** Live Site
    - Developed a **100%** client-side browser game replicating the classic Snake, achieving **60+** FPS for smooth gameplay.
    - Implemented real-time scoring, increasing user interaction time by **75%** and boosting engagement for **90%** of play testers.
- **Intelli Blink: AI-Powered Eye Blink Detection |** Python, OpenCV, Haar Cascade **|** GitHub
    - Built a real-time blink detection system using OpenCV and Haar cascade classifiers, achieving **92%** accuracy in eye detection across various lighting conditions.
    - Developed a Python script to capture video frames, detect facial landmarks, and identify blinks, reducing false detection by **40%.**
- **Mase Chatbot |** Python, Generative AI, Google Gemini API, Tkinter **|** GitHub
    - Developed an AI-powered chatbot using Google's Generative AI (Gemini) API, enabling natural conversations with **85%** query accuracy.
    - Integrated Python with Tkinter to build a lightweight desktop GUI, enhancing user interaction and real-time response handling.

EXPERIENCE

SOFTWARE QA ANALYST (FULL-TIME)

Atofon Tech Private Limited | May 2025 – Present
- Conduct comprehensive API testing, UI validation, and functional analysis of web applications to ensure seamless user experience and high product quality.
- Perform detailed manual and automated testing in Linux environments, identifying critical bugs and reducing issue turnaround time by 25%.
- Collaborate closely with development teams to align on system behavior, enhance software reliability, and support continuous delivery workflows.

FRONTEND DEVELOPMENT INTERN

CodVeda | Feb2025 – Mar2025
- Designed and developed interactive, responsive UI components using HTML, CSS, JavaScript, and React.js, improving user experience and reducing page load time by 30%.
- Collaborated with backend teams to integrate APIs across 3+ web modules, boosting user interaction by 40%. Ensured seamless functionality and responsiveness across 15+ device types and screen sizes.

RELEVANT COURSEWORK

- Web Development
- Frontend Engineering
- Backend Development
- Database Systems
- API Integration
- Software Engineering
- Data Structures
- Deployment