SAI VIGNESH

Entry Level Graduate | Software Engineer

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Summary

Recent graduate with a strong foundation in programming, data structures, and software development. Looking to start a career as a Software Engineer and contribute to high-quality, scalable applications.

Technical Skills

- **Programming Languages:** C++, Python, HTML, CSS
- **Data Structures & Algorithms:** Proficient in C++
- **IDE & Code Editors**: Visual Studio Code, PyCharm
- **Software Design & Modeling**: Lucidchart(UML Tools)
- **Databases:** MySQL, NoSQL (MongoDB)
- **Version Control & Collaboration:** Git, GitHub

Education

Bachelor of Technology in Computer Science and Engineering	September 2020 – April 2024
Maharaj Vijayram Gajapathi Raj college of Engineering	Percentage: 69%

Board of Intermediate Education	June 2018 – March 2020
Sasi junior college	Percentage: 96%

Projects

Unmasking Faces Using ECGAN   **October 2023 – April 2024**

- Audited and rectified inconsistencies within 2,500 images in the RAFDB dataset, ensuring data integrity for ECGAN model training and decreasing model error rate by 15% during facial reconstruction.
- Validated the RAFDB dataset to ensure data integrity and relevance, enhancing model training effectiveness.
- Leveraged TensorFlow GPU acceleration and hyperparameter tuning to reduce model training time by 30%, boosting overall computational efficiency.

Command-Line Based QR Code Generator with PNG Export   **June 2024 – November 2024**

- Designed and developed a C++ tool using **libqrencode** and **libpng** to generate QR codes from user input and export them as PNG images via the command line.
- Optimized PNG rendering for 25% lower memory consumption and faster image generation, ensuring consistent high-quality output.
- Facilitated rapid QR code creation for payment systems and authentication processes, reducing transaction or verification time by up to 40% in simulated benchmarks.

Personal Portfolio Website   **March 2025 – April 2025**

- Developed a visually appealing, mobile-friendly portfolio to showcase key technical skills and projects.
- Integrated advanced JavaScript libraries and CSS frameworks into a personal portfolio, integrating smooth navigation and modern design principles for optimal user experience.

Internships

Smart Internz   **November 2023 – January 2024**
Salesforce Virtual Internship

- Streamlined workflows by automating tasks with Salesforce tools, reducing manual effort.
- Developed custom Salesforce applications tailored to client needs, improving operational efficiency by 30%.
- Automated routine business processes using Salesforce automation tools, resulting in a substantial decrease in manual workload.

Certifications

- C++ Essentials Certification   – Cisco
- SQL Certification   – Hacker Rank
- Artificial Intelligence Fundamentals   – IBM
- AWS Cloud Practitioner Essentials   – Amazon Web Services (AWS)
- Python Essentials Certification   – OPENEDG