

Shaun Joe Roy

Software Engineer

Experienced Software Engineer with experience in feature development and optimisation. Committed to assisting development teams in achieving their software goals by utilising strong problem-solving skills and agile practices. Improved user ratings through targeted enhancements.



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EDUCATION

B.Tech Computer Science and Engineering Presidency University

11/2020 - 06/2024

Bangalore, India

Courses

- Database Management
- C++ Development
- Internet of Things
- DSA

WORK EXPERIENCE

Application Engineer Intern / Application Engineer 1

LTX LaunchTrax

10/2024 - Present

Bangalore, India

Next Gen Mission Systems for Defense & Aerospace

Achievements/Tasks

- Developed and deployed production-ready features, contributing to the overall product functionality and stability.
- Researched and navigated complex codebases, delivering solutions to a variety of technical challenges.
- Proficient in agile methodologies with experience in sprint tasks, stand-ups, and clear communication with project managers.
- Built reusable, optimized code for cross-platform development, including embedded devices and GPS navigation systems (using Honeywell HGuide n380).
- Engaged in continuous learning through mentorship, enhancing technical skills and knowledge in defense systems.
- Wrote code for interfacing I2C with various sensors. Understanding real-time data acquisition with reliability.
- Collaborated with hardware teams to integrate firmware with various sensors-enabled components.
- Studied the possible architecture of STM32, BeagleBone, etc. Built an understanding in IOT, Free RTOS, Yocto etc.
- Architecture, Technical Approach, WBS, effort estimation, team compositions, schedule, milestones, dependencies, risks, assumptions, and commercials are just a few of the elements that were worked on when creating project proposals.
- Understand the standards like MQTT.

C++ Programming Intern

NeuroNexus Innovations

08/2024 - 09/2024

Bangalore, India

Achievements/Tasks

- Created and managed various C++ programs, demonstrating proficiency in problem-solving, and debugging.
- Utilizing modular coding practices with header files to enhance code organization and reusability.
- Employed Git for source code management, including version control, branch management, and collaborative development, ensuring code integrity.

SKILLS

Core C++/C

Python

Multithreading

QT/QML

Design Patterns

Linux Systems

Socket Programming

Bit Bucket

CMake

Embedded Systems

Statistical Methods

Algorithms

I2C

FIRMWARE

PERSONAL PROJECTS

Image-Based Search Engine (08/2024 - Present)

- The Image-Based Search Engine project allows users to upload images, which are then analyzed for descriptive tags using Azure's Computer Vision service. The system searches for similar images in an Azure Search Index and displays results, including images and their descriptions, to the user.

Expert AI Healthcare System (01/2024 - Present)

- Led the team that developed a sophisticated machine-learning technique for assessing heart health that used the KNN (K-Nearest Neighbours) algorithm.

ForgeDB (11/2024 - Present)

- A Simple Relational Database implementing the CRUD functionalities.

CERTIFICATES

Software Engineer Intern (06/2024)

Cisco Intro to Software Engineering Virtual Experience Program on Forage (05/2024 - 06/2024)

Data Analysis with Python (07/2024)

J.P. Morgan Software Engineering Virtual Experience on Forage (06/2024 - 07/2024)

ACHIEVEMENTS

Good Listener Award (11/2018)

High School Convocation

TechPioneer Hackathon Achievement Award (02/2021)

Hackathon Organiser Award

LANGUAGES

English

Native or Bilingual Proficiency

Hindi

Full Professional Proficiency

INTERESTS

Hackathons

Community Discussion

Experimenting