

CHAITAN DIVAGI

Senior Software Engineer

@ natiahc@gmail.com

+91 976 695 8708

HSR, Bengaluru

github.com/natiahc

natiahc

EXPERIENCE

Senior Software Engineer

Mathworks India Pvt. Ltd.

Sept 2021 – Present

Bengaluru, India

- Designed and implemented APIs for accessing various UI-related services, including modernizing the legacy 2D graphics engine to flexible APIs for developers using C++17.
- Maintains the UI infrastructure of Simulink, which is based on browser technology and Qt6.
- Mentors interns and leads project development.

Senior R&D Engineer

Simyog Technology Pvt. Ltd.

Jun 2020 – Sept 2021

Bengaluru, India

- Improved UI and the performance of the EMI/EMC Simulation software using C++17/Qt5/Qml.
- Decoupled a closed system into independent services.

R&D Development Engineer

Dassault Systèmes Solutions Lab Pvt. Ltd.

Sept 2017 – Feb 2020

Pune, India

- Enhanced Material Library of 3D model visualization software by adding several new features using Qt/C++14. (<http://bit.ly/2VQdz9Y>)
- Developed a PowerBy connector plugin which manages CAD data present in In-house cloud platform using C++14 and JavaScript.
- Updated the complex code base and improved the performance of CAD document parser using C++14 and open source libraries.

Software Engineer

Innoviti Payment Solutions Pvt. Ltd.

April 2016 – Sept 2017

Bengaluru, India

- Developed real-time card based payment application that handles transaction between Point Of Sale terminal and bank, supporting Flexible Industry Standards (ISO8583, EMV) using c++11.

Software Engineer

Asteria Aerospace Pvt. Ltd.

March 2014 – Aug 2015

Bengaluru, India

- Involved in early design and development of Qt/C++11 based cross platform application which commands, controls and visualizes real-time telemetry data of Unmanned Aerial Vehicles(UAVs) and payloads.
- Developed many features including offline maps, live video streaming and various UI components following strict coding guidelines.

Research & Development Engineer

Automatronics

July 2012 – March 2014

Goa, India

- Single handedly designed and developed Machine Vision System for pharmaceutical tablet packaging inspection using Qt/C++ and OpenCV.

TECHNICAL SKILLS

- Proficient with C++17, Qt/QML Boost
- Comfortable with C, OpenCV, OpenGL, Vulkan, Javascript, Python, SQL
- Familiar with CUDA C, OpenMP, Java

MISC.

Design Patterns Docker Multithreading
Data Struct. & Algo. Embedded Systems
OpenSSL Webkit Chromium
Network Protocols

scrum CICD Test Driven Development
GTest/GMock C++ Sanitizer CMake
Crypto Git Conan Jenkins

ACHIEVEMENTS

- Collaborator Award** for achieving organizational objectives by developing features with least regression. - 2019, Dassault Systèmes
- Top Gun Award** for developing a feature 'Custom Offline Maps' opposing Google Maps, with a good design approach. - 2015, Asteria Aerospace

LANGUAGES

English Professional
German Elementary, B1

EDUCATION

M.Sc. in Electronics

Goa University

2010 – 2012

Goa, India

Thesis:

Webcam based heart rate detection: Non-contact approach for measuring physiological body parameters developed using various image processing techniques.

B.Sc. in Electronics

Goa University

2007 – 2010

Goa, India