AHMAD NADEEM

SUMMARY

- 17 years of experience in software development from requirements gathering to product delivery.
- Strong background in computer science, data structures, algorithms, and system design.
- Designed and Developed applications with SOLID design principles and design patterns for better code maintainability, readability and scalability.
- Better understanding and implementation of Devops and cloud technology.
- Enthusiastic to learn new technologies.
- A Good Problem Solver.

EXPERIENCE

Associate Consultant, 12/2022 - 08/2024
Tata Consultancy Services - Bengaluru**,** Karnataka, India
Skills : C++, Qt, Python, Automotive, Adas, Autosar, firmware, SOLID design principles, Object oriented , UML, Design Patterns, Architecture patterns

- Designed and developed high performance application improving system efficiency by 10 percent.
- Optimized existing code base to reduce memory use by 10 percent
- Implemented multi threading in critical components improving the performance by 15 percent.
- Designed and set code review standards.
- Integrated third party APIs and libraries
- Developed test cases using Google C++ testing framework.
- Developed framework to measure KPIs of the developed algorithm using Python, numpy, pandas and matplotlib.

Principal consultant, 12/2021 - 09/2022
Temenos – Bengaluru**,** Karnataka, India.
Skills : C++, PostgreSQL, Banking, **SOLID design principles, Object oriented , UML, Design Patterns, Architecture patterns**

- Developed C++ modules focusing on low-latency execution.
- Optimized codebase for better performance.

Technical Specialist, 04/2016 - 12/2021
Continental – Bengaluru**,** Karnataka, India
Skills : C++ , Qt, **Python, Automotive, Autosar, ADAS**, **firmware**, **SOLID design principles, Object oriented , UML, Design Patterns, Architecture patterns**

CONTACT

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2133 BS, Hoofddorp
City   Amsterdam,

SKILLS

- **Programming Languages**
  C++, 11, 14, 17, 20
  Python, C, Shell scripting,
  Javascript, Html, css

- **Tools/Framework**
  STL, Boost, Qt, CMake, Git,
  UML, Design Patterns, Jenkins,
  Devops, Model Driven , V
  model, Google c++ testing
  framework, Gtest, Django,
  FastAPI, SVN, bash scripting,
  git, gdb debugger

- **Development Methodologies**
  V model, SOLID design
  principles, Design Patterns,
  Architecture patterns,
  Object oriented programming,
  UML, Agile, Test-Driven
  Development (TDD),
  Behavior Driven Development
  (BDD), Continuous
  Integration/Continuous
  Deployment (CI/CD), Docker

- Developed C++ modules for an Advanced Driver Assistance System (ADAS), focusing on object detection and collision avoidance.
- Optimized algorithms for real-time performance, enhancing processing speed by 25% through algorithmic refinements.
- Implemented machine learning models for pedestrian and vehicle recognition
- Developed visualization for object detection simulation
- Created pipeline for object detection module.
- Developed C++ test scripts using the Google C++ Test framework, contributing to improved software quality and reduced time-to-market for ADAS products.
- Developed framework to measure KPIs in Python using numpy, pandas, matplotlib.
- Coached junior team members technically.
- Led code reviews effectively for every checked in code
- Created CI/CD pipeline in Jenkins for the module.

Technical Lead, 02/2012 - 04/2016
Infosys Finacle – Bengaluru**,** Karnataka, India
Skills : C++, MySQL, Python, Banking, SOLID design principles, Object oriented , UML, Design Patterns

- Developed high-performance C++ modules prioritizing ultra-low latency execution.
- Designed and developed following object oriented design patterns and solid principles to fortify codebase availability and maintainability.
- Developed faster application by parellelising functionality into different threads.
- Led code reviews effectively and coached junior members of the team.
- Developed automation framework using Python

Software Developer, 01/2011 - 01/2012
Tarang Software Technologies - Bengaluru**,** Karnataka, India
Skills : C++, Qt, Embedded, firmware

- Designed and Developed GUI for the POS device and using QT.
- Designed and developed classes for handling printing of bills with the inbuilt printer in POS.
- Developed Bash script for automating jobs .

Software Developer, 08/2010 - 12/2010
Keane India Ltd - Bengaluru**,** Karnataka, India
Skills : C, , MySQL

- As a part of maintenance project, fixed bugs raised by customer.

Software Developer, 09/2006 - 06/2010
Wipro - Bengaluru**,** Karnataka, India
Skills : C++ , **C**, **Embedded, Firmware**

- **CIOUD PLATFORMS**
  AWS

- **DATABASE**
  MySQL, PostgreSQL

- **Operating Systems**
  Linux, Windows

- **Other**
  Multi-threading, Memory Management, Optimization Techniques,

- **Requirement Gathering Tool**
  DOORS, IBM Rational Rhapsody

- **Domain**
  Embedded, Automotive, Banking, Firmware development.

- Designed and developed classes to read image and extract text from it using Abby OCR.
- Integrated different C++ modules for the entire application.
- Designed and Developed classes for TTS to interact with OCR
- Fixed reported bugs in the application
- Developed various Bash script in Linux for automating jobs.

EDUCATION

B-Tech, Telecommunications Engineering, 07/2006
Vellore Institute of Technology

LINKEDINPROFILE
www.linkedin.com/in/ahmadnadeem-848bb415

LANGUAGES

English: First Language