Karthik Jain H.J

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SUMMARY

Results oriented Software Engineer with over 7 years of experience and passion for crafting innovative solutions. Leverage expertise in C/C++, Python, and Linux OS to develop new features and troubleshoot complex issues. Proven ability to collaborate effectively in cross-cultural, global environments.

SKILLS

C, C++, Python, Qt, SQL, MySQL, MongoDB, Bash, CMake, git, docker, Linux, macOS, RTOS, Restful API, Agile, Algorithms and Data Structures, OS Concepts, System Design, Code analysis, Software Development Life Cycle (SDLC), Mentoring.

EXPERIENCE

Freelance | Self-Employed   **Bengaluru, India**
Software Engineer   **Sept 2022 – Present**
- Collaborated with few startups, college students assisting in few projects, providing consultations.
- Provided efficient, maintainable, scalable C/C++ based apps, libraries, and scripts.
- Provided documentation and support to clients for seamless integration of developed solution.

Walmart   **Bentonville, AR, USA**
Senior Software Engineer   **Jan 2020 – Oct 2020**
- Involved in migration of data inputs from legacy POS terminals to modern cloud-based apps.
- Analyzed and documented dataflow from Legacy POS terminal source code, written in CBasic, C/C++.
- Contributed towards bug fixes and testing of gift-cards module for POS and Kafka stream parser/validator.
- Collaborated with multiple teams and component owners to identify dataflow and optimize Kafka streams.

Qualcomm   **San Diego, CA, USA**
Senior Software Engineer   **May 2018 – Sept 2019**
- Implemented changes and ported multiple C/C++ libraries from Windows to Linux and macOS, ensuring compatibility with other apps.
- Collaborated with multiple teams in gathering requirements and implementing changes to an internal test framework.
- Involved in development and testing of Package Manager, License Manager apps on Windows, Linux and MacOS.
- Contributed towards migrating legacy windows standalone application into cloud-based solution, allowing integration with CI/CD tools.

Qualcomm   **San Diego, CA, USA**
System Software Engineer   **Sept 2017 – Apr 2018**
- Contributed towards enhancing C based Linux audio libraries related to voice activation targeting smaller code size and efficient memory utilization.
- Implemented changes to various C libraries to comply with Unified API standards and technical guidelines.
- Utilized remote debugging to identify and fix bugs in libraries running on multiple Snapdragon devices.
- Developed Python based test framework that would perform automated sanity and integration tests, simulating hardware environments.

LeadFerret Inc   Woodland Hills, CA, USA
Software Developer Intern   September 2016 − May 2017
- Developed Restful-APIs using Python Django, to verify and validate and update information in real-time gathered from multiple public sources.
- Contributed towards improving python scripts for effective data collection and aggregation of public information for generating leads for clients.
- Optimized web scraping scripts to be more efficient by by-passing anti-scraping measures employed by public domains.

Tech Mahindra   Bengaluru, India
Application Developer   Mar 2012 − May 2015
- Contributed to development and maintenance of Linux RTOS based embedded End-User product for Unified Communication platform, specifically focusing on BT Netrix Turret.
- Owned development lifecycle for multiple C++ based applications, libraries, and scripts on Linux, which involved TCP/IP, web sockets, multi-threading, and Qt GUI.
- Utilized IBM ClearCase to manage version control for repositories, including code reviews, resolving merge conflicts, and facilitating code releases.
- Involved with building kernel, compiling integrating apps into binaries, libraries, and flash image files.
- Collaborated with team members to documentation of workflows and provided mentoring to new team members on best practices.

DocPulse   Bengaluru, India
Web Developer Intern   Nov 2011 − Feb 2012
- Contributed to development of mobile optimized variant of website, reducing data usage and load time on mobile devices.
- Involved in testing, debugging and deployment of website using Google App Engine.
- Involved in documentation and creating tutorials for end users.

EDUCATION

California Lutheran University   Thousand Oaks, CA, USA
Master of Science - MS, Computer Science ·3.587 GPA   2017

Visvesvaraya Technological University   Bengaluru, India
Bachelor of Engineering - BE, Computer Science & Engineering   2011