

Kamlesh Saran Dev
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Software Engineer with over 12 years' experience in Product Development and worked in core development teams in Oracle, iStreamPlanet, Amazon, Goldman Sachs, HP, Salmon, RBS and Infosys. Have extensive experience in Design, development, implementation, testing, and maintenance of applications developed using Java, C++. I am seeking to expand my knowledge into machine learning domain. I am a dedicated team player, who can be relied upon and help the team achieve its goal.

Technical Strengths: Experience in typography using Fonts, SVG, OpenGL and QT. Strong in Data structure and Algorithms, Strong in Multithreading, Advance Core java, Java, C, Golang, Rust, C++, AJAX, Tigase, XMPP, JDBC, Tomcat, Jetty, Mockito, Junit, Rest API, Jersey, etc.

Technical Exposure: Golang, Font Engines, Rendering, QT, Scala, Spark, AWS, Typescript, React

Academic Research and Awards:

- **Undergraduate research thesis.**
 - Machine Maintenance using signalling. Awarded runner up prize for this paper presentation.
- **Undergraduate Project.**
 - Auto pilot ship model. Awarded first prize for this model. This was a container ship capable of auto detection of obstacles at sea and has auto course correction and auto engine propeller speed control.
- **Amazon**
 - Awarded for coming up with the idea of creating book link for Kindle Books.
 - Awarded for being a top performer in digital security hacking competition.
- **HP technical paper presentation.**
 - Awarded for Paper presentation on ePrint social networking.
 - Awarded for creating a long polling service to optimize existing HP printer communication with cloud.
 - Awarded best performer award in HP.
- **12th Intermediate**
 - College topper in intermediate high school.

Awards in Sports:

- Runner up in State Level KickBoxing championship
- Orange belt in KickBoxing.
- Gold medal in College football competition

Educational Background:

- Currently Undergoing MS (Specialization in ML) from Georgia Institute of Technology.
 - HPCA (High Performance Computer Architecture)
 - Introduction to Operating System
 - Computer Networks

- High performance Computing
 - Reinforcement Learning
 - Machine Learning
 - Advance Operating Systems
 - Graduate Algorithms
 - Embedded Software Optimizations
 - Computer Vision
- Coursera Online Machine Learning course from Stanford University
 - One year training in Amazon Machine Learning university on Machine Learning modules.
 - Cleared IIT Mains in 2000 and got admission in Marine Engineering and Research Institute Kolkata.
 - B.Tech in the year 2004 from Jadavpur university, with an aggregate of 70%
 - H.S.C from I.C.S.E, Uttar Pradesh with an aggregate of 84%
 - S.S.C from I.S.C, Uttar Pradesh, with an aggregate of 92% (College Topper)

Professional Experience:

Google

Google Cloud Marketplace: - Software Engineer

Dec 2020 - Present

Oracle OCI, Seattle

Operations Development Services: - Senior member of technical staff

March 2019 – Dec 2020

- Working on front end OCI console using react and typescript to create UI which is used by customers to create support tickets.
- Worked on internal tools (OCI Search engine) which is used by internal support teams to quickly find the root cause of issues.
- Worked on internal tools using Rust language for creating command line interface for the OCI search engine.

iStreamPlanet, Seattle

Video workflow: - Senior Software Engineer

Nov 2018 – Feb 2019

- Learned and Implemented video workflows using Go Lang and Netflix conductor.

Amazon Development Centre, Seattle

Amazon Video Customer Engagement: - Software Development Engineer II

Jan 2015 – Oct 2018

- Working on design and implementation of core recommendation services for Amazon Video. Extending the current frameworks to send personalized promotional emails.
- Used EMR clusters and created Spark Scala jobs to generate reports involving millions of customers and scaling the solution for very large datasets.

- Security certifier in Amazon, responsible for certifying external applications and verifying they adhere to the high security bar set by Amazon.
- Completed training and certification at Amazon Machine learning university.

Amazon Development Centre, Seattle

Jul 2015 – Dec 2016

Kindle-SDK: - Software Development Engineer II

Kindle is a series of E-book reader designed by Amazon, which enables users to download, browse, and read eBooks, newspaper, magazines, and other digital media via wireless networking.

- Worked on design and implementation of core Kindle graphics framework in C++ and Java. The framework enables other stack applications to create seamless graphical experiences.
- Scaling storage layer for kindle framework running very large eBooks of over 1GB of size
- Awarded for coming up for the idea of book share links.

Amazon India Development Centre, Chennai

Jan 2014 – July 2015

Kindle-SDK: - Software Development Engineer II

Kindle is a series of E-book reader designed by Amazon, which enables users to download, browse, and read eBooks, newspaper, magazines, and other digital media via wireless networking.

- Worked on design and implementation of core Kindle framework in cpp and java. The framework enables other stack applications to work seamlessly upon Kindle, without knowing the content serialization format.
- Worked in implementing a storage layer using sqlite for eBooks, in editing tools, and making them scale to substantial volume.
- Implemented position apis for in-place structure in eBooks
- Worked on complex bugs arising due to java jni interfacing with cpp in Kindle SDK.

Goldman Sachs, Bangalore

Oct 2012 – Jan 2014

Trading-VESPA: - Senior System Development Engineer

VESPA is an in house Middle ware application developed for trading, due to long-standing scalability, performance and maintenance issues with existing trading systems.

- Worked on design and implementation of VESPA from scratch. Used swing for front end and java 1.6 with spring and jdbc as backend. Application is an ear deployed on weblogic.
- Worked on creating 80% test coverage for VESPA to make it a reference implementation for other systems in trading.
- Worked on implementing application monitoring module for VESPA and ARIES.
- Worked on creating a transitive closure design for VESPA tables to store hierarchical data related to other systems.

- Developed unit test cases, integration and system test cases for VESPA. Since it is the central eventing system for trading. It requires much more robustness.
- Implemented interfacing of legacy and new system with VESPA using TIBCO messaging server and weblogic foreign jms server.
- Involved in support of the system.

Hewlett Packard, Gurgaon

Jan 2011 – Oct 2012

Eprint: - Senior System developer

Eprint is a feature aiming to connect printers through web. No more specific drivers need to be installed on PC. The ability for remote printing makes it a desirable feature in today's printing industry.

- Understanding the current scalability issues with the current XMPP servers and designing how RLE compression algorithm would help in this case.
- Developed signalling system to help scale Tigase XMPP servers and moving the architecture from Persistent XMPP connections to HTTP long polling.
- Implemented subscription framework for printer to Eprint cloud.
- Solved multiple multithreaded issues in XMPP server and XMPP clients.
- Performance benchmarking for jetty8 and tomcat 7 for signalling.
- Analysing and optimizing performance degradation of XMPP servers due to GC overheads.
- Creating test framework for Eventing system for Eprint cloud.
- Performance testing of Gemfire caching and hornet q messaging system to see which fits eprint eventing infrastructure.

Salmon Software, gurgaon

Jun 2010 – Dec 2010

GAME: - Senior Developer

Design, development, testing and deployment of Gift-voucher functionality for GAME

- Developed User site using Struts and AJAX for Gift voucher and Wishlist functionality.
- Developed extensions to IBM websphere e-commerce server for supporting Gift voucher and Wishlist.

Royal Bank of Scotland

Jan 2009 – June 2010

RBS Worldpay

RBS Worldpay provides a globally connected, locally coordinated payment processing service for all sorts of businesses, big and small. RBS Worldpay is a leading provider of electronic payment processing solution

- Small enhancements for Worldpay payment gateway.
- Design and development of new Issuer bank api.
- Created a new reporting module in an existing perl application.

- Created a testing framework for new Issuer bank api.

Infosys

Mi Adidas – Developer

Mar 2006 – Dec 2008

Mi Adidas is an ecommerce application enabling its customer to customize and shop for adidas shoes. One can customize their own performance shoes, according to the way they need it. Can change the design, change the colors, and add some words or some special tags, but most of all even materials of the shoes: sole, mid-sole, chassis, uppers, studs etc. and can finally order the shipment

- Creating web modules for miadidas using jsp for front-end using tag libraries, JDBC for backend.
- Creating mail service api for miadidas.

Bekins Van Lines

(BVL) is into the Business of Household goods transportation. This project is undertaken for complete migration of Bekins IT infrastructure from Mainframe to J2EE based web platform.

Planning and Dispatch project is to track new shipments that have been entered into the registration system from where it comes to the PDT system where the shipment is actually planned, it is tracked and dispatched

- Changing PDT batch processing modules from mainframe to java.
- Creating file reading and writing framework for replacing mainframe file processing to java.
- Creating new JSP pages for driver module. Creating stored procedure, etc.
- Solving production defects.

MAXTRAD

Exporters use MAXTRAD application and Importers across the globe, its help in tracking the status of export, loan sanctioning etc. Exporters and Importers have to be authorized by ABN AMRO

- Analyzing and solving production defects.
- Analysis, fixing of bugs, major and minor enhancements.

EDUCATIONAL QUALIFICATION

- 4-year Bachelor Degree in Engineering from Jadhavpur university (REC) in June 2004

References

Available on request

DECLARATION

I hereby declare that all the information furnished above is true to my knowledge.

Place: Lynnwood, Washington

Date: 27-Dec-2020

Kamlesh Saran Dev

