

Jasdeep Singh

SENIOR CLOUD ENGINEER (SECURITY AND PERFORMANCE)

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CAREER SUMMARY

With more than 15 years of experience in designing, developing and delivering enterprise software, I take initiative and lead the engineering projects that bring robustness and resiliency to the services offered. My recent work involves security and performance engineering. I have worked on security vulnerability mitigation, migration to cloud infrastructure, performance bug resolution, and introducing concurrency.

EXPERIENCE

Senior Cloud Engineer

CHANDIGARH, INDIA

Basware

April 2021 - Present

- Lead the replacement of an intermediary software to enhance security and visibility of our services for banking institutions, and automate the security certificate renewal to avoid service disruption.
- Envision the design of a secure and faster xml transformation with Saxon XSLT 3.0.
- Plan and mitigate the vulnerabilities reported by Snyk and Nessus on a continuous basis.
- Consolidate secure coding practices and advocate security-by-design culture within the development team as one of the six members of the company wide security guild.
- Achieved performance enhancement by using concurrency and in-memory cache.

Associate Lead Software Engineer

CHANDIGARH, INDIA

Basware

April 2015 - April 2021

- Successfully developed and deployed secure and high throughput components for an invoicing solution.
- Planned and mitigated security vulnerabilities reported by Whitesource, Snyk and Nessus on a continuous basis.
- Migrated codebase from SVN to Git repository

Senior Software Engineer

CHANDIGARH, INDIA

Basware

September 2011 - April 2015

- Upgraded Peppol libraries (Oxalis and Peppol Silicone) to latest version. Created V1 and V2 Certificates.
- Re-designed and migrated existing Servicemix 3.x project to Fuse Servicemix 4.0. This helped us to get rid of legacy (outdated) software.

Co-Founder

CHANDIGARH, INDIA

Kirrt Foundation

July 2017 - Present

- Lead a digital archiving project that documented artisans and labour
- Designed and deployed an AWS hosted web application
- Envisioned projects like online viewing room during Covid lockdown

Independent Writer

CHANDIGARH, INDIA

Independent

2011 - Present

- Languages used: Fountain, Markdown, R Markdown, Leaflet, Python, R, RevealJS
- Written dialogues for award winning feature films
- Contributed essays and translations to esteemed journals
- Presented papers on Cinema and Digital Culture in academic conferences

Web Developer

CHANDIGARH, INDIA

Net Solutions

2010 - 2011

- Developed and deployed eCommerce web applications using Spring framework.
- Successfully implemented payment gateway webservices API.
- Technologies Used: Spring, Hibernate, MySQL

Product Engineer

NEW DELHI, INDIA

Route Guru

2008 - 2010

- Solely maintained a direction based routing web application written in Struts framework.
- Implemented and maintained the web application integration with routing engine written in C++ via JNI.
- Technologies Used: GIS, Java, Struts, Spring, PostgreSQL

Software Engineer

CHANDIGARH, INDIA

Fidelity Information Systems

2006 - 2008

- Developed and maintained modules for enterprise banking web application using Struts framework.
- Technologies Used: Java, Struts, Spring, Oracle

PROJECTS

Digital archive of protest movement

HYDERABAD, INDIA

IIIT

2020 - 2021

- Coordinate with the scientists, engineers and historians from across India to curate a digital archive of the nation wide social movements.
- <http://indiasocialarchive.iiit.ac.in>

Daily news roundup generator and translator

CHANDIGARH, INDIA

Github

2020 - 2021

- Built a web scraper to fetch news items from leading regional newspapers, and to machine translate the headlines to English using Python, Scrapy, and Google Translation API.
- <https://github.com/jasdeep/farmers-movement-archive-scraper>

Digital archive of artisans

CHANDIGARH, INDIA

Kirrt

2018 - 2021

- Curated a digital archive of photographs and testimonials of artisans from Punjab.
- kirrt.org

Nikola Punjabi localization

CHANDIGARH, INDIA

- Contributed Punjab language localization files to static site generator Nikola
- <https://github.com/getnikola/nikola/commit/1bcf9968478424eddd579e9b58cfffdf298c878af>

[Github](#)
August 2015 - 2015

Ghost4j library switch

CHANDIGARH, INDIA

- Pushed switch to Apache PDFBox from iText library
- <https://github.com/jasdeep/ghost4j/commit/284c01b277926fce61b5b9ed650595e02a874a0e>

[Github](#)
2015 - 2015

QRGen code refactoring

CHANDIGARH, INDIA

- Refactored QRGen library code
- <https://github.com/kenglxn/QRGen/pull/42>

[Github](#)
2014 - 2014

SKILLS

Data	HTML, XML, JSON, XSLT, CSS, LaTeX, Markdown, Fountain, AsciiDoc, Leaflet
Databases	MySQL, MSSQL, MongoDB
Frameworks	Spring, Spring Boot, MyBatis, Hugo, Blogdown, Wordpress, Nikola
Infrastructure	AWS, Docker
Middleware	Apache Tomcat, Apache Camel, Apache ActiveMQ, Amazon Active MQ, IBM MQ, Restful and SOAP Web Services
OS	Windows 10, WSL, AWS Linux, Ubuntu, OS X
Programming	Java (JEE, JSE), Python, R
Security	OWASP, Snyc, White Source, Nessus, Web Services Security and CAS
Tools	Git, SVN, Maven, Ant, Pandoc, IntelliJ Idea, RStudio, PyCharm, Bamboo, Chef, Jenkins, Splunk, Dynatrace

WRITINGS

The Mute Fury

TRANSLATION

- Contributed translation to the book 'Reclaiming the Disabled Subject, Representing Disability in Short Fiction' edited by Someshwar Sati, GJV Prasad, Ritwick Bhattacharjee

[Bloomsbury](#)
2022

Art sans borders: How the pandemic has brought the two Punjabs closer

ESSAY

- Essay on digital public sphere during the pandemic

[Scroll.in](#)
2021

The apparatus and the subaltern

PAPER

- Presented paper "The apparatus and the subaltern: Study of Gurminder Singh's Annhe Ghorhe Da Daan" at 45th South Asia Conference

[Madison, WI, USA](#)
2016

Artists in the Internet age

PAPER

- Presented paper 'Artists in the Internet age: Works of Teju Cole and others' at the Emerging Contexts of Technology and Culture Conference

[Punjab University, Patiala, India](#)
2015

CERTIFICATION

Sun Certified Java Programmer

SUN MICROSYSTEMS

[Global](#)
2007

EDUCATION

B.Tech. Information Technology

BBSBEC, FATEHGARH SAHIB

- Worked on the institute web portal project that used Java, XML, XSLT and Apache Cocoon as technology stack

[Punjab Technical University](#)
2001 - 2005