

# Man Parvesh Singh Randhawa

## Software Engineer | Lifelong learner

Curriculum Vitae

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## PROFESSIONAL EXPERIENCE

Present	<b>Software Engineer, WORKS APPLICATIONS Co. LTD., Singapore</b> <i>Manager Candidate 3, HUE Base Technology Div.</i> As a member of the Security team, responsible for design, development, testing, deployment, maintenance, and improvement of security features (Single Sign-on, Password authentication, Time based access control, etc.) in HUE, an AI integrated cloud-based ERP system. <ul style="list-style-type: none"><li>&gt; Designing Microservices Architecture based systems, RESTful web APIs and distributed multi-tenant applications.</li><li>&gt; Rewrote and improved a major part of the Single Sign-On implementation.</li><li>&gt; Proposed and designed the "Security Checkup" feature.</li><li>&gt; Resolved issues in more than 30 production environments within a month.</li><li>&gt; Mentored an intern for 12 weeks and developed a UI test suite using Selenium.</li></ul>
October 2016	2018 · · ·
	2017 · · · <i>Manager Candidate 2, Singapore R&amp;D EC Dept., Global R&amp;D Div.</i> As a member of COMPANY-EC, worked on improvement and maintenance of the large scale E-Commerce ERP system. Improved performance of Oracle DB2 queries by 70%.
	Java   Maven   Spring MVC   Spring Boot   Kubernetes   Jenkins   JUnit   JavaScript
Present September 2017	<b>Founder, YODA PA, github.com/yoda-pa</b> <ul style="list-style-type: none"><li>&gt; Led the creation of a personal assistant based on the terminal.</li><li>&gt; Features : chatbot, developer tools, money manager, diary, learning tools, and many more.</li><li>&gt; More than 500 GitHub stars; more than 40 contributors; listed in GitHub Trending.</li></ul> Python   NLP   Leadership   Open Source Software
August 2015 August 2015	<b>Android development intern, EASYTABLES, Remote</b> Developed two food ordering Android applications from scratch in a period of 15 days. Android   Java
July 2015 June 2015	<b>Android development intern, IIT GUWAHATI ALUMNI ASSOCIATION, Guwahati</b> Developed an Android application for the alumni of IIT Guwahati to connect with their Alma-mater. Android   Java
March 2015 March 2014	<b>Secretary, MONTAGE - THE PHOTOGRAPHY CLUB, IIT Guwahati</b> <ul style="list-style-type: none"><li>&gt; Helped 100+ students to explore photography by organizing expeditions, workshops, and exhibitions.</li><li>&gt; Led photography teams in various campus events.</li></ul> Photography   Leadership
August 2014 July 2014	<b>Summer intern, IIT GUWAHATI, Guide : Dr. A. Murali Krishna</b> Developed an Android application for Geotechnical engineers to classify soils using experimental data. One related conference paper. Android   Java

## EDUCATION

2012-2016	<b>Bachelor of Technology, Indian Institute of Technology, Guwahati, Civil Engineering, 6.59/10.</b> <i>Thesis : "Development of CONTRADIS"</i> <i>Relevant Courses : Linear algebra, Calculus, Introduction to Computing, Computing Lab, Genetic Algorithm</i>
Certified Online Courses	<i>Saylor Academy : Algorithms, Discrete Structures, Computer Organization, Operating Systems, Computer Communications &amp; Networks, Compilers, Databases</i> <i>Coursera specializations : Programming with Python, Android Development, "Parallel, Concurrent, &amp; Distributed Programming in Java", Deep Learning, Machine Learning (course).</i> Complete list with certificates : <a href="http://manparvesh.com/learning">manparvesh.com/learning</a>

## PUBLICATIONS

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- > Das P., **Man Parvesh S.R.**, Bharat T.V. (2019) Experimental Analysis of Salt Diffusion in Compacted Clays by Through-Diffusion and Half Cell Technique. In : Stalin V., Muttharam M. (eds) Geotechnical Characterisation and Geoenvironmental Engineering. Lecture Notes in Civil Engineering, vol 16 (p. 179-186). Springer, Singapore [Book chapter](#)
- > Das P., **Man Parvesh S.R.**, Bharat T.V., “*Experimental analysis of salt diffusion in compacted clays by Through Diffusion and Half-Cell technique*”, Indian Geotechnical Conference 2016 (15-17 Dec 2016, IIT Madras, India) [Best paper award](#) [Conference paper](#)
- > Das P., **Man Parvesh S.R.**, Bharat T.V., “*Salt Diffusion in Compacted Plastic Clay : Experimental and Theoretical Evaluation*”, International Conference on Soil and Environment (22-23 July, 2016, Bangalore, India) [Conference paper](#)
- > **Man Parvesh S.R.**, A. Murali Krishna. “*Development of an Android application for Geotechnical engineers*”, North-East Students Geo-Congress on Advances in Geotechnical Engineering (18 October, 2014, IIT Guwahati, India) [Conference paper](#)

## SKILLS

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Programming Languages	Java, Python, C, C++, JavaScript, CSS, Golang
Frameworks	Spring (MVC & Boot), JUnit, Android, Flask, Click
Databases	Apache Cassandra, Redis, IBM DB2, MySQL
Development tools	IntelliJ Idea, Maven, git, GitHub

## PROJECTS ([manparvesh.com/project/<name>](http://manparvesh.com/project/<name>))

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CONTRADIS	Java inverse analysis suite that uses genetic algorithms to estimate the parameters essential for liner design in Geotechnical engineering. Two related conference papers and one book chapter.
chenab	Python interpreter implementation in Python 3.5.
mpsmtp	Simple Mail Transfer Protocol server in Python.
kangraDB	A key/value database with physical storage; implemented in Python.
tumbiChat	Multithreaded chat server implementation in C++. Users can communicate through the command line.
makhanOS	Toy Operating System with simple command line interface; written from scratch.
ecsh	Elementary bash shell written in C.
barfee	Text editor implemented using Java and JavaFX.
stlmp	Algorithms and Data Structures library for C++.
tcp-server	TCP server implementation in C.
regx.h	Regular Expression matching library in C.
spellor	Spell checking and correcting library in Java 8.
cbake	Build tool for C and C++ projects; implemented in Python.
LilCache	Lightweight Java cache framework with different Cache implementations.
cppjit	Minimal JIT compiler implementation for X86-64.
bot-dude	Facebook messenger bot in Python with basic modules.
Android :	<b>IdeaTrackerPlus</b> , <b>poketpa</b> , IITG Study groups ( <b>iitg-study-groups</b> ).
Web :	Super Inventory Manager ( <b>sim</b> ), Freelancer Management System ( <b>fms</b> ).
More :	<a href="http://manparvesh.com/miniprojects">manparvesh.com/miniprojects</a> , <a href="http://manparvesh.com/contributions">manparvesh.com/contributions</a> .

## EXTRACURRICULAR ACTIVITIES

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IIT-JEE '12	Ranked in the top 0.5% out of 560,000 candidates in Indian Institute of Technology – Joint Entrance Exam.
AIEEE '12	Ranked in the top 0.3% out of 1,100,000 candidates in All India Engineering Entrance Examination.
IOM '11	Overall rank : 20, state rank : 1 – level II, International Olympiad of Mathematics, Silverzone foundation.
Sports	Football (National Sports Organisation), Swimming, Cycling.
Kick-boxing	Was awarded First Degree Black belt by Budo Ryu Kempo, Australia in 2006.
Misc.	<ul style="list-style-type: none"><li>• Certificate of Merit by Deputy Commissioner, Pathankot, India.</li><li>• Part of the winning team, Manthan 2014 (Inter-hostel cultural tournament, IITG).</li><li>• Managed IITG online Freshman forum 2014 and helped hundreds of incoming students.</li></ul>