

Man Parvesh Singh Randhawa

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EDUCATION

- **The University of Texas at Dallas** Richardson, TX
Master of Science in Computer Science Aug. 2019 – Present
- **Indian Institute of Technology Guwahati** Guwahati, India
Bachelor of Technology in Civil Engineering Aug. 2012 – June 2016

PROGRAMMING SKILLS

- **Languages:** Java, Python, C++, Javascript, C, SQL
- **Technologies:** AWS, Ansible, Spring, Kubernetes

EXPERIENCE

- **Software Engineer**, Works Applications Co. Ltd., Singapore Oct 2016 – July 2019
 - **AWS Elastic Kubernetes Service migration:** Migrated existing multi-tenant infrastructure from self-managed to EKS clusters, resulting in 60% availability improvement and 10% less engineering cost.
 - **Deployment stability and speed improvements:** Used parallelization to increase cloud environment startup efficiency by 60%. Used AWS monitoring services to increase component availability by 20%.
 - **Single Sign-On Authentication implementation:** Implemented SSO Authentication using Java and Spring Framework, which is being used by 70% of the customer companies.
 - **Fixed critical issues:** Provided fixes for critical issues in more than 50 customer environments while collaborating with developers and consultants from offices in Tokyo, Shanghai, and Singapore.
 - **Summer 2018 Internship Mentor:** Mentored an intern to develop an integration test suite for security features; guided him to understand how authentication methods work in production systems.
 - **Security mechanism proposal:** Proposed a specification for a central mechanism to ensure acceptance of safe practices by all users, which would make the system safer by at least 40%.
 - **Authentication methods improvement:** Enhanced functioning of authentication methods like password authentication and two-factor authentication for seamless integration with different products.
 - **Automated tests:** Increased automated unit test coverage by 20% using JUnit and Mockito.
- **Founder**, Yoda PA, [github/yoda-pa/yoda](https://github.com/yoda-pa/yoda) May 2017 – Oct 2018
 - **About:** Built an open source command-line personal assistant using Python 2, Python 3 and Click framework; wrote automated tests for command implementations using nosetests with 76% coverage.
 - **Features:** Chatbot, developer tools, diary, money manager, learning & productivity tools, etc.
 - **Achievements:** Listed in GitHub Trending; 600+ GitHub stars; 160+ forks; 80+ contributors
 - **Online Coverage:** Y Combinator News, Reddit, SDTimes.com, OSTechNix.com, ubunlog.com, etc.

PUBLICATIONS

- 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. Geotechnical Characterisation and Geoenvironmental Engineering. Lecture Notes in Civil Engineering, vol 16. Springer, Singapore.
- [Best paper] 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 (Dec '16, IIT Madras).
- 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 (July '16, Bangalore, India).
- **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 (Oct '14, IIT Guwahati).

PROJECTS

- **stlmp:** Created an open-source Data Structures and Algorithms library in C++ with automated unit tests using CMake. Achievements: 25 GitHub stars; 49 forks; 13 contributors.
- **IdeaTrackerPlus:** Designed an open-source enhancement of the Ideas Tracker Android Application. Achievements: 30 GitHub stars; 16 forks; 11 contributors.