

Mohan Sharma

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<http://mohansharma.me> | <http://github.com/mohansharma-me> | <http://linkedin.com/in/mohansharma-me> | <https://stackoverflow.com/story/mohansharma.me>

Individual with a master degree in computer engineering and a background in developing highly scalable web, desktop and mobile applications

SUMMARY

- **2 years and 10 months** of professional experience in developing scalable **Web, Desktop** and **Mobile** applications
- **2 years of research experience** in Cloud Computing and Evolutionary Computation area – 4 international publications
- More than **20+ projects** deployed and being used right now and **sole owner** of many projects
- I live and breathes Web and Mobile application development – self-taught developer
- I'm **passionate about perfection** and will not settle for anything less
- Strong object-oriented concepts and application design experience with test-driven development approach
- Worked on domains like: Job Portal, eCommerce, Chat Solutions, ERP, Wallet Banking, Booking System, Cloud Computing, Distributed Systems, Real Estate, Entertainment and many other customized applications

SKILL SET

Programming Languages

- Java, PHP 5.6, C# (WinForms and WPF), SQL/NoSQL, JavaScript, HTML/CSS

Technologies and Frameworks

- **Expert in:** Spring Boot and Cloud, Hibernate, Redis, Elasticsearch, WordPress, Laravel, Microservice Architecture, Bootstrap/Materialize, GIT, Databases (MySQL, SQLite, DynamoDB, MongoDB), Socket Programming, Payment Gateways (CCAvenue, Stripe, Instamojo, PayPal, PayTM), IVR/SMS Gateway Integration, AWS (CloudFront CDN, S3, SQS, SNS, API Gateway, RDS, ELB), Multi-region Deployment, FFMPEG – Media Transcoding, Google/Facebook/Twitter/Amazon API Integration, Schedulers, JUnit - Mockito
- **Proficient in:** Linux Server Administration, Node.js (MEAN Stack), React.js, PhoneGap, Android Native (Retrofit, Picasso, Glide), J2ME, WebRTC, Jenkins, jFrog, Zuul/Eureka/Consul, Maven, Edge Service
- **Exposure in:** Erlang, XMPP, Nginx, Kubernetes, Cassandra, Data Compliance

Publications

- “An artificial neural network based approach for energy efficient task scheduling in cloud data centers” in Sustainable Computing: Informatics and Systems, An International Journal – proposed machine learning based algorithm design for tackling NP-Hard problem of resource allocation in distributed cloud data centers (improved data center performance by 59% that too with 88% less execution overhead while reducing 71% energy consumption)
- “HIGA: Harmony-inspired Genetic Algorithm for Rack Aware Energy Efficient Task Scheduling in Cloud Data Centers” in International Journal of Engineering Science and Technology (JESTECH – Elsevier) – proposed a new novel algorithm which improves exploration and exploitation capability of Harmony and Genetic Algorithm for more optimal solutions in Rack-aware Cloud data centers (47% improvement in application performance that too with 39% less execution overhead while reducing 33% energy consumption)
- “Whale-Genetic Optimization Algorithm for Energy Efficient Task Scheduling” in International Conference on Advanced Engineering Optimization through Intelligent Techniques 2018 (Springer) – proposed new hybrid artificial intelligent algorithm for reducing energy consumption and improving performance in cloud data centers as well as reduced execution overhead up to half of what is initially required
- “Energy-aware Whale-optimized Task Scheduler in Cloud Computing” in International Conference on Intelligent Sustainable System 2017 (IEEE) – proposed optimized approach for independent task scheduler in distributed cloud environment and greatly improved application performance in cloud data centers

EXPERIENCE

Software Development Engineer – Team Lead , Handzap Software Pvt. Ltd. – Bangalore	June 2018 - Present
Research Student , National Institute of Technology – Kurukshetra	July 2016 – June 2018
Senior PHP Web Developer (Full Stack) , Webplanex InfoTech Pvt. Ltd. – Ahmedabad	March 2016 – July 2016
Senior Web Developer (Full Stack) , WebcodeZ Infoway Pvt. Ltd. – Rajkot	June 2013 – May 2015

PROJECTS

- **Finnecle Pay Point Services (2015)**, an application to felicitate donation via text or call. Designed and developed interactive-voice response integration, donation, wallet and accounting modules using Spring Boot/Laravel/PHP/MySQL/Electron.js/React.js.
- **Provalue Group Portal (2016)**, designed and developed primary modules using Spring Boot/MySQL. Lead a team of 4 web developers.
- **Ticket booking portal (2014)**, for Angel CineWorld online movie ticket booking system and a software to manage and print bookings using PHP/MySQL, C#/SQLite. <http://wp.me/p7DHis-35>
- **ERP Management (2014)**, for NNP Polymers, designed and developed customized ERP solution which features order management, accounting, billing, notification, collection/interest reports, bulk printing solution, bulk notification sender and many more using C#/SQLite, Spring Boot/MySQL. <http://wp.me/p7DHis-2d>
- **HQMusic.in (2014)**, it was aimed to attract traffic for digital marketing, music sharing website, developed music encoding utility and an entire website using PHP/MySQL/MVC/ffmpeg. <http://wp.me/p7DHis-6U>
- **Harbauer App – RO water plant monitoring system (2015)**, software to monitor big RO water purifier plant connected through micro-controller panel, generates contamination reports and animates results using C#/SQLite/Blend. <http://wp.me/p7DHis-27>
- **Remote RO water plant control and monitoring system (2015)**, software to control big RO plant machine remotely over GSM Modem and to manage multiple machines. Features were like turn on/off, rinse, clear tank, status etc. Using C#/SQLite/Serial Port Programming/Spring Boot. <http://wp.me/p7DHis-1F>
- **WeTeam Security App (2015)**, developed console to alert groups in real-time with private notification to connect and engage with other members of group quickly using Android/Volley/SQLite/Laravel/REST API. <http://wp.me/p7DHis-2C>
- **YouDown (2010)**, It allows users to search, play and download YouTube videos on J2ME enabled devices. 4 lakh downloads on mobile9 platform <http://wp.me/s7DHis-youdown>
- **Stock inventory management (2015)**, software with a light weight user-interface to manage inventory with invoices, accounts and printing features using C#/SQLite. <http://wp.me/p7DHis-1R>

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- Visit <http://mohansharma.me/portfolio> for my detailed portfolio with source code and screenshots
 - Maintaining Linux VPS on Digital Ocean from last 2 years and running open-source hosting panel Sentora.
 - Developed custom messaging server with authentication
 - Developed media attachment and transcoding service
 - Used Trello and Slack to manage project and timeline
 - Contributed to ElementaryOS's Music App (using Vala Language)

EDUCATION

Master of Technology in Computer Engineering, CGPA: 9 from National Institute of Technology, Kurukshetra Research area: Meta-heuristic Algorithms (Multi-objective Optimization), Energy Conservation in Data Centers, Cloud Computing	2016 – 2018
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Bachelor of Engineering in Computer Engineering, CGPA: 7.89 from Government Engineering College, Rajkot University: Gujarat Technological University	2012 – 2015
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Diploma Engineering in Computer Engineering, CGPA: 8.14 from C U Shah Institute of Diploma Studies, Wadhwan city University: Gujarat Technological University	2009 – 2012
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Class 10 , Percentage: 68.31% from K. K. Parekh & R. P. Mehta Vidhyalay, Amreli Board: Gujarat Secondary and Higher Secondary Education Board (GSEB)	2007 - 2008
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Academic activities

- Developed embedded project for Robo Race event using Kail-uVision/C
- Developed Brizingr'15 event registration website and android application
- Supervised B. Tech. labs as a Technical Assistant
 - 1) Data Structure using C++
 - 2) Object oriented programming using C++
 - 3) Operating System

PERSONAL STRENGTH

- Strong research skills: digging through documentation, reading reference guides, release notes and discussion forums
 - Enthusiastic, motivating and ability to pay attention towards the details
 - Always up for new technologies and writing clean manageable code
 - Passionately fast learner and always believes there is much more to learn
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