

# MUDIT DHAGAT

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A technology enthusiast with 5+ years of experience in shaping ideas into prototypes, delivering quality products and solutions.

- Extensive experience in designing applications with Java and related technology.
- Owning and working end-to-end on an application from full stack development to deployment.
- An inquisitive and fast paced learner, with a knack for working in teams and individually.
- Love to collaborate and have an aptitude for mentoring.

## TECHNICAL SKILLS

Languages	Java, C/C++, HTML, CSS, JavaScript, SQL (PostgreSQL, MySQL), Python
Technology	Java EE, RESTful Web services, Hibernate, Spring, AngularJS, jQuery, Bootstrap
Tools	Eclipse, Brackets, SVN, Git, Maven, Jenkins, Tomcat, Wildfly
Experimented	Node.js, Angular, MongoDB, Machine Learning, Big Data (Hadoop, Hive)

## PROFESSIONAL EXPERIENCE

Tata Research Development & Design Centre (*TCS Innovation Lab*)  
*Developer*

Mar 2012 – Present

### Web-based solution for infrastructure support – US Patent #US9531725 (Grant)

- Developed a web based SSH terminal emulator using web sockets, Implemented SSO with AD integration.
- Designed UI and backend service to search and display CMDB (jQuery / Servlets).

### Automatable units using command execution history – US Patent #US9706005 (Grant)

- Wrote a program to derive context aware execution history of commands.

### Remote execution API

- Developed a library for connecting and executing commands on remote hosts using SSH, Telnet, WinRM.  
Used by many tools and products.

### Orchestrator prototype for automated incident and ticket resolution

- Converted an in-house workflow tool into orchestrator by building adapters and integration layers.
- Built adapters for ITSM tools (Remedy, ServiceNow) & Monitoring tool (Nagios).
- Wrote a mail notification and approval system.
- Individually handled design and implementation in a span of 4 weeks - *Awarded SRL High Performer*.

### Framework for rapid service integration and migration - US Patent #US9436486 (Grant)

- Designed and implemented the publisher – subscriber based messaging sub-system (ActiveMQ), explored methods for its high availability.
- Wrote RESTful web services for data centre inventory management.

## A remote script execution platform

- Built a webapp for hosting and executing automation scripts (bash, powershell, perl, groovy).
- Described as "intuitive and flexible" by end-users - delighted by UX and the time saved.

## Ignio™ - Cognitive System for enterprise IT Ops

- Developed system for connection & execution on data centre elements, implemented connectors and credentials vault for server, software, network devices, etc.
- Achieved 50% reduction in overall execution time, implementing connection reuse.
- Extensively contributed in taking the platform from incubation to first release candidate - *Awarded Star Team*.

## Supply Chain (eProcurement) - Ongoing

- Involved in building automation of purchase-to-pay (P2P) lifecycle of invoice processing.
- Lead the development of a webapp providing near-real time prediction dashboard using analytical techniques - rule & pattern mining, clustering.
- Explored Machine Learning techniques to provide actionable insights.

## PERSONAL WORK

- Designed a website for Naqsh Jewellery - [www.naqshjewellery.com](http://www.naqshjewellery.com)
- Recipe finder App - wrote web scrapper, building backend services (Python / Django) and UI (Angular).

## ACHIEVEMENTS AND ACTIVITIES

- SRL Star Award, for consistent performance at the lab.
- Co-inventor of 4 **Patents** (3 grants till date) - *Special Initiative and IP Creation Awards*
- Qualified GATE (Computer Science) - 2014 with 97.5 percentile.
- Poster Presentation at TACTiCS Global Conference 2012-13 (TCS), Chennai

## EDUCATION

Shri Vaishnav Institute of Sci. & Tech., Indore (M.P.)

B.E., Electronics and Communication - 70.6%

- IEEE - Student Branch Chairperson. 2011
- Internship at Centre for Artificial Intelligence and Robotics (CAIR), DRDO, Bangalore.

Christ Church Boys' Senior Secondary School, Jabalpur (M.P.)

- Senior School Certificate, C.B.S.E. - 82.2% 2007
- Secondary School Certificate, C.B.S.E. - 86.6% 2005