

# Gaurav Dhiman

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## Skills

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**Management:** Excellent communication, Hire & build tech teams, Mentor & motivate team members, Design & architect systems, Agile practitioner, Support product & feature planning

**Technologies:** ReactJS, Redux, RESTful APIs, GraphQL, NodeJS, ExpressJS, SailsJS, FeathersJS, NextJS, Progressive Web Apps (PWA), Web Sockets, MongoDB, OrientDB, Serverless computing

**Testing:** C/C++, Python, Pandas, HIVE, PySpark, Kafka, SQL / NoSQL DBs, HBase

**Tools:** MochaJS, ChaiJS, SinonJS, Cypress, PyTest, Behave (Python)

**Tech Domains:** GIT, NPM, PIP, Jupyter Notebook, Docker, Kubernetes

**AI / ML:** Domain Driven Design, Microservices, Service mesh, Cloud (familiarity with AWS)

**AI / ML:** Understanding of Deep Neural Networks, CNNs, RNNs, Reinforcement Learning, Keras

## Work Experience

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### PennyMac Loan Services - [www.pennymacusa.com](http://www.pennymacusa.com)

Phoenix, AZ

SENIOR ARCHITECT

Jan 2021 – Present

- Technically leading Analytics team for correspondent mortgage business line. Moving team towards adoption of big-data analytics.
- Mentoring - Did a quick POC to showcase how to use PySpark Streaming to generate real-time reports in place of Postgres functions.
- Driving effort to move monolithic DB based loans pipeline reports to incremental PySpark reports.

### Cognizant Technology Solutions (client: American Express) - [www.cognizant.com](http://www.cognizant.com)

Phoenix, AZ

SENIOR ENGINEERING MANAGER / SENIOR ARCHITECT

July 2014 – Jan 2021

- Technically leading web and big-data app teams in the Email Marketing / Messaging Portfolio of American Express.
- Customer facing web apps are built using NodeJS, NextJS, ReactJS, Redux & MongoDB. Big data processing app is built using Java, HIVE, Python, Spark & HBase tech stack. It processes 100+ million customer records per month for delivery of marketing emails.
- Working with the product management teams to refine, align and implement the product roadmaps for these applications.
- Prepare the mid and long term architectural vision and align other teams in the email marketing ecosystem to achieve it.
- Motivate, mentor and drive the teams to achieve their respective delivery goals.
- Continuously review the development processes to ensure best practices are followed across teams for development, code reviews, testing and release cycles.
- Contribute to code development, pull requests (PR) reviews and unit as well as end-to-end cucumber tests, as bandwidth allows.

### S3 TechZulla Pvt. Ltd.

Chandigarh, India

Co-FOUNDER & CTO

Oct 2012 – June 2014

- Started an entrepreneurial venture to build SaaS based e-commerce and travel solutions for small and medium businesses (SMBs).
- Built the team from scratch and led it to develop & market three online software products - RetailEMall, DesignStudio and TravelCRM.
- RetailEMall was a cloud based SaaS solution for brick and mortar shops to set up online stores in a few clicks. Reference link: <https://web.archive.org/web/20150302160817/http://retailmall.com/store/>
- DesignStudio was a web solution to build online stores for selling apparel with customized designs. Reference link: <https://web.archive.org/web/20150827053731/http://www.techzulla.com/design-studio/>
- TravelCRM was a web solution originally developed for Travelopod.com. Later customized for few other online travel agencies (OTAs). Reference link: <https://web.archive.org/web/20160320174214/http://www.techzulla.com/travelcrm/>
- Link: <https://yourstory.com/2013/06/if-ecommerce-is-the-space-you-are-interested-in-techzulla-can-help-you-set-up-shop>

### Infosys Ltd. - <https://www.infosys.com>

Chandigarh, India

ARCHITECT

Aug 2011 – Aug 2012

- Worked as a Technical Architect for Capital Groups Companies (CGC) in the Cloud division of Infosys. Grew the team from 2 engineers to 15 engineers for an initiative to migrate on-prem applications to cloud.

### NEC HCL System Technologies Ltd. (now NEC India) - <https://in.nec.com>

Noida, India

MANAGER - TECHNICAL PRESALES

Sept 2008 – July 2011

- Started product presales unit for NEC Technologies from scratch. Grew a team from one solution engineer to 24 members.
- Proposing Business Continuity & IT Infra solutions to customers / global partners based on NEC IT Infrastructure software products like NEC' ExpressCluster and Virtual PC Center (VPCC). Closely work with software sales groups in NEC subsidiaries across the world.
- Presenting solutions, demos and POCs to executive stakeholders in customer organizations across the world. Presenting at industry events.
- Providing market feedback to product teams at NEC Japan.

## NEC HCL System Technologies Ltd. (now NEC India) - <https://in.nec.com>

Noida, India

TECHNOLOGY LEAD

Oct 2006 – Mar 2008

- Worked along with NEC's core Linux kernel team in Japan to port OpenSolaris kernel on ARM platform for Toyota's infotainment system. Led a small team of three kernel engineers and one Japanese interpreter onsite (at Japan). Technologies used: C language, Assembly language.

## Cadence Design Systems - <https://www.cadence.com>

Noida, India

MEMBER TECHNICAL STAFF

Oct 2004 – Oct 2006

- Worked as a software engineer in the product development team for Cadence's RTL compiler (logic synthesis). Technologies used: C/C++, Linux environment for development. More about logic synthesis: [https://en.wikipedia.org/wiki/Logic\\_synthesis](https://en.wikipedia.org/wiki/Logic_synthesis)

## Computer Associates Inc (now part of Broadcom) - <https://www.broadcom.com>

Hyderabad, India

SOFTWARE ENGINEER

May 2004 – Oct 2004

- Worked as engineer for development of IAM (Identity and Access Management) suite of products. Technologies used: C/C++, Linux environment for development.

## HCL Technologies Ltd. - <https://www.hcltech.com>

Gurgaon, India

SOFTWARE ENGINEER

Sept 2002 – Apr 2004

- Worked as an engineer on NCR Corporation's project for ATM management software (Gasper). Technologies used: VBA, VB Script.

## Personal Projects

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### Discussion.im

MaterialUI (ReactJS), Redux,  
Redux-Saga, Redux-ORM,  
FeathersJS, NextJS, MongoDB,  
Dockers

PROGRESSIVE WEB APP (PWA) THAT MAKES THE ONLINE FORUMS MUCH FUN TO USE. CODEBASE:

[HTTPS://BITBUCKET.ORG/GAURAV-DHIMAN/DISCUSSION\\_IM/SRC/MASTER/](https://bitbucket.org/gaurav-dhiman/discussion_im/src/master/)

<http://discussion.im>

### ReactNative app to show nearby retail offers on phone

ReactNative, MeteorJS, MongoDB

A MOBILE APP TO PUSH NEARBY OFFERS TO USERS, BASED ON THE USER'S INTEREST AND LOCATION. USERS CAN SET UP THE KIND OF OFFERS THEY ARE INTERESTED IN AN APP AND THEN THE APP SENDS PUSH NOTIFICATIONS WHENEVER THE OFFER OF GIVEN INTEREST IS PUBLISHED IN A SPECIFIC RANGE OF USER'S LOCATION (GEO-FENCING). APP IS BUILT USING REACT NATIVE AND METEORJS.

<https://bitbucket.org/gaurav-dhiman/push-notify-react-native-app/src/master/>

### ORM adaptor for SailsJS and OrientDB

ORM ADAPTOR / LIBRARY WRITTEN TO CONNECT SAILSJS (NODEJS FRAMEWORK) WITH ORIENTDB (GRAPH BASED DB). MADE IT OPEN-SOURCE ON NPM TOO.

<https://github.com/gauravdhiman/sails-orientdb-binary>

## Awards & Honors

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Oct 2010 **Technical Manager of the Year**, Got awarded with "Technical Manager of the Year" award for 2009-2010 from CEO of the company (NEC Technologies India Ltd) for starting a new BU (technical enterprise pre-sales) from scratch and developing it to 24 member team.

CEO, NEC  
Technologies India  
Ltd

July 2006 **Recognition Award**, Got Instant Recognition Award from Engineering Group Director of Cadence US Team for implementing the improved and simplified Verilog Reader / Writer in Cadence's RTL Compiler Product.

Engineering Group  
Director, Cadence  
Design Systems, US

## Education

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### Panjab University

Chandigarh, India

MASTERS OF COMPUTER APPLICATIONS IN COMPUTER SCIENCE

1999 – 2002

### Kurukshetra University

Kurukshetra, Haryana

BECHALOR OF COMMERCE IN COMMERCE

1995 – 1998