

Gaurav Dhiman

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Skills

Management: Excellent communication, Hire, build & mentor tech teams, Design & architect systems, Agile practitioner.
Technologies: Python, PySpark, Pandas, HIVE, SQL, Kafka, RDBMS (Postgres, MySQL), NoSQL (MongoDB, DynamoDB), NodeJS, NextJS, ReactJS, Redux, RESTful APIs, GraphQL, OOPs, C/C++, Linux CLI.
Testing: MochaJS, ChaiJS, SinonJS, Cypress, PyTest, Behave (Cucumber).
Tools: GIT, NPM, PIP, Jupyter Notebook, Docker, Kubernetes, AWS (EC2, Lambda, EventBridge, S3, RDS).
Tech Domains: Domain Driven Design, Event Driven Microservices, Big Data Analytics, Cloud (experience with AWS services).
AI / ML: Understanding of Deep Neural Networks, CNNs, RNNs, Reinforcement Learning, Keras, Tensorflow

Work Experience - Hands-on 19+ years of software industry experience.

PennyMac Loan Services - www.pennymacusa.com

Phoenix, AZ, USA

SENIOR TECHNOLOGY ARCHITECT (VP)

Jan 2021 – Present

- Leading Data Engineering & Reporting team for loan processing system. Directing team towards adoption of big-data processing.
- Driving effort towards transition of batch reports from DB stored procedures to Spark based processes, to off-load the DB workload and improve DB performance. We are using AWS Glue to implement PySpark batch jobs.
- Led and delivered an initiative to transition a batch loan processing pipeline report to real-time incremental Pandas based report, processing around 0.5 million events per hour using AWS lambdas.
- Hiring, mentoring and building teams of software engineers, software architects & managers to fulfill the resource needs.

Cognizant Technology Solutions (client: American Express) - www.cognizant.com

Phoenix, AZ, USA

SENIOR TECHNOLOGY ARCHITECT / SENIOR ENGINEERING MANAGER

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 ETL pipeline is built using HIVE, Python, Spark, Kafka & HBase tech stack. The pipeline processes 100+ million customer records per month for delivery of marketing emails through integration with Salesforce Marketing Cloud (SFMC).
- Contribute to code development, pull requests (PR) reviews and unit as well as end-to-end cucumber tests.
- 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.
- Working with the cross-functional teams to refine, align and implement the product roadmaps for these applications.
- Participate in hiring process to build right team of engineers and senior engineers for Cognizant.

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-e-commerce-is-the-space-you-are-interested-in-techzulla-can-help-you-set-up-shop>

Infosys Ltd. - www.infosys.com

Chandigarh, India

TECHNOLOGY 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 Corporation India) - <https://in.nec.com>

Noida, India

MANAGER - TECHNICAL PRESALES

Sept 2008 – July 2011

- Started product presales unit for NEC India 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 Corporation 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 - 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

Computer Associates Inc (now part of Broadcom) - 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. - 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

Real time online discussion forums

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/)

<https://discussion-im.herokuapp.com/>

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

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

Panjab University

Chandigarh, India

MASTERS OF COMPUTER APPLICATIONS IN COMPUTER SCIENCE

1999 – 2002

Kurukshetra University

Kurukshetra, Haryana

BECHALOR OF COMMERCE IN COMMERCE

1995 – 1998