Gaurav **Dhiman**

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Skills

Management: Excellent communication, Hire, build & mentor tech teams, Design & architect systems, Agile practitioner.
Technologies: NodeJS, NextJS, ReactJS, Redux, RESTful APIs, GraphQL, SQL, RDBMS (Postgres, MySQL), NoSQL (MongoDB, OrientDB), OOPs, C/C++, Python, Pandas, HIVE, PySpark, Kafka.
Testing: MochaJS, ChaiJS, SinonJS, Cypress, PyTest, Behave (Cucumber).
Tools: GIT, NPM, PIP, Jupyter Notebook, Docker, Kubernetes, AWS tech (EC2, Lambda, SQS, S3 etc).
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.

Work Experience

PennyMac Loan Services - www.pennymacusa.com
Phoenix, AZ
SENIOR TECHNOLOGY ARCHITECT — *Jan 2021 – Present*
- Technically leading Analytics team for loan processing system. Directing team towards adoption of big-data analytics.
- Hiring, mentoring and building teams of engineers and senior engineers to fulfill the resource needs.
- Helping team to transition batch reports from DB stored procedures to Spark based processes, to off-load the DB workload and improve DB performance.
- Led and delivered an initiative to transition a batch loan processing pipeline report to real-time incremental Pandas based report, processing around 0.4 million events per hour using AWS lambdas.

Cognizant Technology Solutions (client: American Express) - www.cognizant.com
Phoenix, AZ
SENIOR ENGINEERING MANAGER / SENIOR TECHNOLOGY 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.
- Prepare the mid and long term architectural vision and align other teams in the email marketing ecosystem to achieve it.
- Participate in hiring process to build right team of engineers and senior engineers for Cognizant.
- 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:/retailemall.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
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 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

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

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/ *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

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*