

Gaurav Dhiman

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Skills

Management: Excellent communication, Hire, build & mentor tech teams, Design & architect systems, Agile practitioner.
Technologies: Python, Applied AI (LLMs, Agentic Frameworks), Autogen, CrewAI, LangChain, LangGraph, PySpark, Pandas, HIVE, SQL, Kafka, RDBMS (Postgres, MySQL), NoSQL (MongoDB, DynamoDB), NodeJS, NextJS, ReactJS, Redux, RESTful APIs, GraphQL, PHP (Hack), OOPs, C/C++, Linux CLI. RAG (Reterival Augmented Generation), AI Agents, AWS (EC2, S3, Lambda etc)
Testing: MochaJS, ChaiJS, SinonJS, Cypress, PyTest, Behave (Cucumber).
Tools: GIT, NPM, PIP, Jupyter Notebook, Docker, AWS , AI IDEs (CursorAI, Aider, Zed etc)
Tech Domains: Domain Driven Design, Event Driven Microservices, Big Data Analytics, Cloud (experience with AWS services).
AI / ML: Building products with multi-modal AI models - LangChain, Autogen, CrewAI, Ell-AI, HuggingFace, Replicate.

Work Experience: Technology Leader with 22+ years experience

Meta (Facebook) - www.meta.com

Phoenix, AZ, US

STAFF SOFTWARE ENGINEER

Aug 2022 – Present

- Lead design and develop full-stack software products for Meta's Ads Monetization group. Worked on both backend + frontend.
- Led development of Sales AI, a Llama (LLM) based Agentic AI chat app to self-serve Meta's sales workforce.
- Closely work with Cross-Functional (XFN) teams & technically lead business requirement discussions. Drive engineering effort.
- Design large scale, highly-available, low-latency & fault-tolerant distributed systems.
- Analyze business requirements and translate it into actionable tasks Create system design and technical documentation.
- Write code and perform code reviews to ensure high code quality. Mentor & unblock engineers.

PennyMac Loan Services - www.pennymacusa.com

Phoenix, AZ, USA

SENIOR TECHNOLOGY ARCHITECT (VP)

Jan 2021 – July 2022

- Leading Data Engineering & Reporting team for loan processing system. Directing team towards adoption of big-data processing.
- 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.
- 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-ecommerce-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 8 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.

Education

Panjab University

Chandigarh, India

MASTERS OF COMPUTER APPLICATIONS IN COMPUTER SCIENCE

1999 – 2002

Personal Projects ()

Real time online discussion forums

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

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

A MOBILE APP TO PUSH NEARBY OFFERS TO USERS, BASED ON THE USER'S INTEREST AND LOCATION.

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**, Received this award from NEC India CEO for building and growing presales team from scratch.

CEO, NEC
Technologies India
Ltd.

July 2006 **Instant Recognition Award**, Received this award from Engineering Group Director at Cadence for implementing the simplified Verilog Reader / Writer in Cadence's RTL Compiler Product.

Engineering Group
Director, Cadence
Design Systems, US