

Dolly Gyanchandani

Lead Software Developer

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Pragmatic lead software developer with a total experience of **11 years** including 6 years at **ThoughtWorks**. Having worked on a variety of domains including Fintech, Payments, Trading, Education, Gaming, Optical & Radio Astronomy, Retail, my key thriving skills include product thinking, exploring complex domains, making clean architectural and technical decisions, designing and modelling complex systems. My technical expertise includes building **event driven & reactive systems**, **microservice architecture**, **domain driven design**, **devops**, data processing pipelines while following **XP and agile** practices.

Skills

- **Technologies:** Golang, KrakenD, Go-zero, C#, Asp.Net Core, SpringBoot, Kotlin, Python, Scala, Java, NodeJs, Akka, AWS, Redis, Kafka, MongoDB, Postgres, ClickHouse, Docker, Kubernetes
- **Tools:** Git, New Relic, Grafana, Kubernetes, Nomad, Docker, Jenkins, GoCD

Projects

Lead Software Consultant – Equal Experts – Bangalore, India

Jan. 2025 – Present

- Collaborating with a client IG Infotech, a UK-based trading platform, on account opening and activation journeys to enhance user onboarding experiences.
- Leading the **end-to-end delivery of a new investment product integration**, Upvest, expanding the platform's investment offerings
- **Coaching and mentoring developers** on engineering best practices, including pair programming, test automation, continuous delivery and trunk-based development to drive technical excellence and team productivity
- Tech: Java, Spring boot, Postgres, Mongo, Kafka, Nomad, Gitlab

Backend Tech Lead – Best Wing Technologies – Dubai, UAE

Jul. 2024 – Oct. 2024

- Led backend development for delivering an online casino and gaming platform with a crypto currency payment system
- Accountable for technical architecture of the system, **team leadership**, sprint planning, technical analysis, overseeing infrastructure, planning go-live and release activities.
- Successfully led the design and delivery of the Back-office reporting platform with **~100 reports within just one month** following an event driven architecture.
- Tech: Go lang, go-zero, Postgres, ClickHouse, Kafka, Redis, AWS, Gitlab

Senior Software Developer – Delivery Hero – Talabat – Dubai, UAE

Oct. 2022 – July 2024

- Led the backend development of a **Unified Payment Widget** to be used across the platform by all verticals, killing the old inconsistent payment experience for the customer.
- Leveraging my expertise in XP practices like **TDD, refactoring, CI/CD**, drove the team in rewriting the payment system by fixing the architecture, automating tests, refactoring the services for robustness and reduced incidents.
- Pioneered the transformation of payment services from synchronous blocking to event-driven architecture.
- Established a strong **Observability & Monitoring** system with **Alerting** to reduce incidents and optimize MTTR and MTTR.
- Cultivated a **product mindset** by carrying out highly controlled customer experiments & RFCs with detailed impact analysis.
- Worked on expanding the online payment market in MENA region by developing new integrations with **Checkout.com**.
- Supported 24/7 on-call duty for the most critical payments domain.
- Tech: Go lang, KrakenD, C#, dotnet, ASP.NET Core, Postgres, MS SQL Server, Kafka, Drone CI

- Owned responsibility of the core features of the platform including [assessment](#), [assignment](#), [interim test](#), [pathway](#) for a digital learning platform based on microservice architecture focused on transforming the education experience for students with [personalized learning](#).
- Played the scrum master in the team with responsibilities of facilitating all team meetings, technical discussions, retrospectives, ensuring smooth delivery every sprint, representing team for technical discussions across other teams.
- Tech: Kotlin, Spring Boot, Javascript, Typescript, GraphQL, Mongo DB, Kafka, Jenkins, Go CD

Senior Software Developer – ThoughtWorks – Pune, India**Jul. 2014 – Oct. 2020**

Worked on various client projects as a senior software consultant to understand complex domains, collaborate with clients in an agile setup, building high quality software following XP practices like pair programming, TDD, refactoring.

Project - Thirty Meter Telescope

- Contributed to building control system middleware (framework and libraries) for the [world's largest](#) optical telescope TMT - Thirty Meter Telescope to be built in Hawaii. Developed highly [distributed](#), [reactive](#), [event-driven](#) and resilient micro services in Scala and Java using the [Akka framework](#). The project is fully open source - [CSW](#)
- Led development of [PTP-based Time Service](#) to synchronize the components of the telescope with nanosecond precision.
- Built a [low latency Event Service](#) (PubSub) powered by Redis and Kafka.
- Developed a fully concurrent, distributed Command Service backed by Akka Actors and Streams.
- Contributed in designing & developing Sequencer component of the telescope along with [Kotlin based internal DSL](#) for the scientists to write observatory scripts. The project is fully open source - [esw](#)

Project - Automating Radio Telescope Data Processing Pipeline

- Led development of an end-to-end automated data processing pipeline for world's largest radio telescope - [Square Kilometer Array \(SKA\)](#) built in South Africa and Australia. The project is fully open source - [artip](#)
- The pipeline was built in [Python](#) using CASA (Common Astronomy Software Application) making use of advanced [statistical techniques](#) like Median absolute deviation, angular dispersion, custom detailed flagging algorithms.
- Open MPI was used to process [petabytes of data](#) stored on a distributed cluster with Luster FS.

Other Projects

- Worked with [leading Indian bank](#) for mega digital transformation to build a unified digital platform for Lending to build highly available event-driven microservice based architecture written in Kotlin, Spring Boot, NodeJs, Javascript, React.
- Worked with [Sony Corporation](#) to build a marketing website using Scala and Play framework, Mongo DB, Chef and Go CD.
- Migrated entire infrastructure for Sony from in-house to [AWS](#) following [Infrastructure as Code](#) using [Ansible and Python](#).
- Worked with a leading US bank to create a Data Lake solution using AWS EMR, Apache Hadoop, Hive.

Conference Talks

- Presented a talk on *Science of Time Keeping for the World's largest Telescope* in Grace Hopper Conference 2019, India.
- Presented a talk on *Time Keeping for Distributed Control Systems* in the Distributed Systems Meetup, Pune.
- Talked on "[Automated data processing for uGMRT and MeerKAT absorption line surveys](#)" in an international conference of scientists - The HI Absorption Conference in ASTRON, Netherlands.
- Presented a talk on "[Automating Radio Telescope Imaging Pipeline](#)" in Grace Hopper Conference 2017, India.
- Conducted a bootcamp at IUCAA for global astrophysicists to train them to use ARTIP.

Publications

- Coauthored a scientific paper on a rare detection of OH absorption in a galaxy which was detected by the automated radio telescope imaging pipeline I highly contributed to: <https://arxiv.org/abs/1806.00172>
- Recognized in notable scientific papers for contributions to a data processing pipeline that enabled scientific insights.
 - <https://arxiv.org/pdf/1712.03511.pdf>
 - <https://arxiv.org/pdf/1708.07371.pdf>

Education

- Bachelor of Computer Applications, University of Madras **2016**
- Diploma in Information Technology, Government Polytechnic Nagpur **2014**