

Niharika Singh

Lead Software Engineer

niharikasinghiiit@gmail.com





Dynamic and results-driven professional with a stellar 10-year track record spearheading and delivering mission-critical projects. Adept at leading, managing, and developing complex software initiatives across the entire development lifecycle.

I focus on documentation, user-centric design, security and scalability to build products that make a positive impact on user's lives.

IIIT - ALLAHABAD

Bachelor in Technology 2009 - 2013

- · Graduated with 8.23 CGPA
- Scored a prefect 10/10 in the Graduation Project (SAP Labs internship)
- Developed a Facial Recognition software as thesis project using R/Matlab

LEAD ENGINEER

Innovation Upstream ||

Manitoba, Canada [Remote, India] Nov 2022 - Present

Golang, Google Cloud Platform, K8s, firestore, Docker, GRPC, Bugsnag, Gitlab CI, Centralised Crypto Currency Exchange, Bazel, Github actions, Firebase, Tilt, Bash, Perl scripting, Vercel

- Developing a centralised crypto exchange; serving as Full Stack **Engineering Lead** while actively contributing to development.
- Managing product launch and releases, ensuring seamless cross-team collaboration between QA/devs for timely feature delivery.
- Overseeing scrum planning, standup updates, assigning tickets, dev resource allocation and Roadmap planning.
- Managing and reducing tech debt through systematic initiatives like integrating **Bugsnag** for robust error tracing and logging.
- Managing Google Cloud Platform (GCP), owning end-to-end processes, overseeing iOS/Android deployments, and ensuring product stability.
- **Independently drove** the **migration** of our extensive code repository and CI/CD pipelines from GitLab to GitHub (including Github actions), improving workflow efficiency and pipeline stability.
- Took ownership and built many core product features: Buy/Sell crypto with Nexus as liquidity provider, **KYC verification** (SumSub), international payments, and user authentication via Firebase SDK.
- Created comprehensive and meticulous documentation, aiding in team collaboration and knowledge transfer.
- Successfully migrated complex Golang monolith BE to microservices architecture, significantly improving development productivity.
- Introduced unit tests and component-based testing to backend, enhancing code quality and reliability.
- Engaged in collaborative pair programming sessions to foster knowledge sharing and resolve development roadblocks.
- Doing integrations with providers like Banxa, Circle, Moonpay to enable crypto exchange and seamless payments on the platform.
- Rewrote backend application from Node.js to Golang, optimizing performance and scalability.
- Streamlined frontend deployment, migrating from Firebase to Vercel for faster releases.





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Senior Software Engineer

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SENIOR SOFTWARE **ENGINEER**

Hellofresh || Berlin, Germany November 2020 - July 2022

Golang, Kafka, Kubernetes, Docker, Graylog, DDD, TDD Honeycomb, AWS, concourse CI/CD, Spinakker

- Worked in Payments Tribe to launch robust payment features, boosting net acceptance rates and profit margins.
- Introduced automated payments via config based batch processing, leveraging AWS, Kafka, and Docker for streamlined operations.
- Abstracted out the critical payment routing flow into a new service, allowing us to optimise providers and acquirers for each transaction.
- This resulted in achieving a massive 2x acceptance rate increase (recovering lost payments) across all countries.
- Integrated Forter and Spreedly through A/B tests, further improving payment acceptance rates and routing strategies.
- · Led a company-wide initiative to migrate away from legacy systems, contributing to enhanced scalability and agility.
- Engaged all the cross functional squads in our entire Tribe to take part in learning and initiative drive
- As part of the drive, I myself pursued Domain Driven Design (DDD) knowledge, driving team event-storming sessions for innovative solutions.

LEAD SOFTWARE ENGINEER

Q2 || Bengaluru, India April 2019 - Dec 2019

Java, AWS batch, Docker Kubernetes, Salesforce, AWS, Serverless, Jenkins, Terraform, TDD, Spring Boot

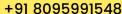
- Implemented Batch Job System to reduce Salesforce dependency and to improve performance and scalability.
- The new system was able to process millions of Loan/Lease Applications per day, a 50x improvement on earlier implementation.
- Designed and implemented this external system using AWS/Docker to dockerize batch jobs and automatically scale to handle the load easily.
- Achieved over 90% code coverage using Mockito tests.
- Used Terraform to manage and version infrastructure

SENIOR SOFTWARE **ENGINEER**

Unacademy || Bengaluru, India Aug 2018 - Dec 2018

Golang, Python, Django, Elastic Search, Docker, AWS, Dynamo DB, Honeycomb, Jenkins, TDD

- Used ElasticSearch to introduce Search and Auto-complete features in the core product.
- Introduced Educator Statistics into the platform, that collects important info regarding weekly, monthly and yearly progress and tracks user milestones.
- This helped in streamlining API usage across products reducing unnecessary load on servers.
- Created a new bookmarking micro-service using Golang.
- Implemented Lesson feed micro-service.
- Implemented a mechanism to capture fake user watch cycles using Serverless and AWS lambda, drastically reduced company cash outflow going out to fake users.













Senior Software Engineer

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SENIOR SOFTWARE ENGINEER

JiffleNow || Bengaluru, India Sept 2016 - April 2017

Ruby on Rails, Docker, AWS, concourse CI/CD, TDD

- Built a Transport Layer micro-service from scratch.
- Built a generic platform to integrate third party marketing and sales APIs on the go.
- Increased company customer base significantly by implementing Marketo integration.
- Did several core feature enhancements for the core meetings app.
- Introduced caching and improved DB schema to improve app performance.

SOFTWARE ENGINEER

Tinyowl || Mumbai, India May 2015 - Dec 2015

Ruby on Rails, Docker, AWS, concourse CI/CD, TDD

- Developed Offer micro-service to manage restaurant offers/discounts.
- Enhanced promotion micro-service to create accurate location specific promotions in app for targeted marketing.
- Offer and promotion services helped **increase** restaurant and customer onboarding rate by 20%.
- Implemented fault tolerant notification microservice using Parse &
- To solve high payment failure rates, integrated Paytm/Mobikwik
- This reduced payment failure rates by 50%.

SOFTWARE ENGINEER

SAP Labs || Bengaluru, India August 2013- April 2015

Java, ABAP, BYDesign

- As a member of platform team, worked on SuccessFactors metadata framework.
- · Worked in the Quality Analysis team in building a Reporting Cockpit for KPI displays.
- Won the Rising Star award in Q2 (given to best employee in the quarter) for implementing the batch externalisation system
- Participated in the development of project for Green Energy Conservation under Green ICT initiative (Govt of India)
- Received award for the best development team (yearly award) in Jifflenow
- Was an active member of **diversity** initiative at Hellofresh
- Was invited to and attended Women in Tech conference, 2023 organised by Deliveroo in Hyderabad

Java, Spring Boot

- MVC
- Python, Dango
- Golang
- Salesforce
- Apex Salesforce
- Ruby on Rails
- NodeJs
- Angularis
- Javascript
- Bash

- Confluence
- Jira
- Jenkins
- Heroku, Agile
- Prometheous
- Graylog
- Grafana
- Docker
- Kubernetes
- Kafka
- PHP

- Honeycomb
- Firebase
- Mongodb
- Bazel
- Firebase Github Actions
- Microservices
- GCP
- Domain Driven Design
- Event Storming

- Rest
- **AWS**
- Terraform
- Redis
- **Elastic Search**
- RabbitMq
- Mysql
- Postgresql
- Neo4i
- Github, GitLab
- Github Actions

