

Work Experience

Current Jun 20	Tech Lead - Payments - As a lead for the UPI & BBPS platforms, managed a reporting team of 6 engineers through an acquisition, streamlined planning, on-call, incidents and docs, led the designs for Setu's UPI Switch to support 150k merchants, revamped money flows for both products in a month amidst regulatory changes, internal tools & dashboards atop a new data lake eliminating daily engineering support and security improvements passing 5 external InfoSec Audits. Software Engineer 3 - Payments - As an early engineer, grew the team from 5 to 35, gained expertise in Go, ECS, SQS, RDS, S3, DynamoDB, Cloudwatch, Terraform, Web security, fixing production with service & settlements continuity even after failures. - Designed and built refunds on UPI, covering data and fund movement for automated & API-initiated flows. - Built a customizable no-code tool for billers to collect bill payments via BBPS by simply uploading Excel sheets. - Wrote Setu's developer-facing console from scratch, covering Auth with Keycloak, onboarding, configuration, KYC, real-time reports, 2FA, User & API key management and support being embedded as iframe with seamless sign-in. - Extended UPI Deeplinks with a SSR NextJS shortlinks service with custom payment flows for web, Android & iOS.	Setu, India
May 20 Aug 18	Software Engineer 2 - Mint - Built an email & push notifications system for Mint's 4M MAU, iterating with PM, XD, mobile & marketing teams. - Led CCPA compliance for Bills on Mint with Kafka-driven async architecture for reading and deleting all user data. Software Engineer - Quickbooks Online (QBO) - Wrote async GraphQL APIs with Redis caching and cross-channel (Web, iOS, Android) billing for QB Self-Employed. - Refactored critical APIs with recommended design patterns with error & performance monitoring on Splunk. - Wrote a Java library adopted across teams to publish business & performance metrics with retries to Wavefront. Site Leader for Open Source - One of 14 core contributors to set up the OSS and Inner Source program for Intuit, liaising with engg & legal teams.	Intuit, India
Jul 18 May 18	Google Summer of Code (GSoC) contributor - Added Bazel support for building the gRPC Python codebase, with custom Skylark rules for the Cython modules. - Extended support to Google's internal CI (Kokoro) as well, allowing incremental build & test runs with Bazel. - Reported issues in rules_python's experimental pip support, module-level logger specification for libraries.	gRPC (Cloud Native Computing Foundation)
Jul 17 May 17	Software Engineer Intern - Quickbooks Online (QBO) - Wrote a GraphQL API in Java for opting out of a QBO trial subscription, with 95% unit & integration tests. - Worked on a Machine Learning model for predicting potential paid customers for QBO from trial user data.	Intuit, India
Jun 16 May 16	Software Engineer Intern - Automated migration & replication of real-time data from AWS RDS to Redshift, optimized for full-table queries. - Integrated a Business Intelligence (BI) platform pulling data from Redshift into the enterprise analytics platform.	ezDI, India

Education

2013-2018	Bachelors + Masters in Computer Science and Engineering - Indian Institute of Technology, Kharagpur Teaching assistant for Compilers (CS31003) and Data Structures (CS19001)
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Technical Skills

Languages	Go, Python, Javascript/Typescript, HTML, CSS, SQL
Frameworks	React, Redux, Flask, Celery, NodeJS, Bazel, OpenAPI, Webpack, Ginkgo, Fictioan, Frammer, Marshmallow
Platforms	AWS, Docker, Elasticsearch, Kibana, Grafana, Keycloak, OpenResty/Nginx, GitHub Actions, Gitlab CI/CD
Databases	Postgres, DynamoDB, MongoDB, Redis

Publications

• Learning to extract comparison points of entity pairs from Wikipedia articles	JCDL 2018
Novel comparative text mining using relational tuples to model & measure semantic commonality for 2 documents and tabulating them. Published at Proceedings of the 18th ACM/IEEE on Joint Conference on Digital Libraries (JCDL), 2018.	