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Work Experience

Current **Jun 20**	**Software Engineer 3 - Payments**	**Setu, India**

- Fully managed, designed and built refunds on UPI, covering fund movement for automated & API-initiated flows.
- Built a deeply customizable no-code tool for billers to integrate with 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 shortlink service for UPI with custom redirection for web, Android & iOS and duplicate payment guards.
- As an early engineer, grew the team from 5 to 35, gained expertise in ECS, SQS, RDS, S3, DynamoDB, Cloudwatch, Terraform, Web security via VAPT audits, fixing production with service & settlements continuity even after failures.

May 20 **Aug 18**	**Software Engineer 2 - Mint**	**Intuit, India**

- Built dynamic push notifications & emails for Mint with 4% & 40% CTR, iterating with PM, XD, mobile & marketing.
- Led CCPA compliance for Mint Bills with Kafka-based 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.
- Added features & refactored critical API with abstract factory pattern, error & performance monitoring on Splunk.
- Wrote a resilient Java library adopted by multiple teams to publish metrics to Wavefront for real-time dashboards.

Site Leader for Open Source

- Core contributor to the OSS and Inner Source program, working with engineering, legal and evangelism teams.

Jul 18 **May 18**	**Google Summer of Code (GSoC) contributor**	**gRPC (Cloud Native Computing Foundation)**

- 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.

Jul 17 **May 17**	**Software Engineer Intern - Quickbooks Online (QBO)**	**Intuit, India**

- Wrote a GraphQL API in Java for opting out of a QBO trial subscription, with unit & integration tests.
- Deployed a Machine Learning model to help Intuit predict potential paid customers for QBO from trial data.
- Revamped internal company creation tool with validations & safeguards, reducing invalid configs to 30%.

Jun 16 **May 16**	**Software Engineer Intern**	**ezDI, India**

- Automated migration & replication of real-time data from AWS RDS to Redshift, optimized for full-table queries.
- Implemented proof-of-concepts to embed a Business Intelligence (BI) solution in the enterprise analytics platform.

Apr 16 **Feb 15**	**Software Engineer - Image Processing**	**Autonomous Underwater Vehicle Research Group**

- Added image processing logic for Buoy detection and path following underwater using OpenCV on ROS.
- Wrote Neural Network based adaptive image segmentation for the bot to adapt to dynamic lighting conditions.

Education

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

Technical Skills

Languages	Go, Python, Javascript/Typescript, HTML, CSS
Frameworks	React, Redux, Flask, Celery, NodeJS, Bazel, OpenAPI, Webpack, Babel, Fictoan, Framer, 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.