

Work Experience

Current Aug 18	Software Engineer - Identified & filled monitoring gaps in QBO billing platform's most critical signup API with an extensible framework written in Java to publish metrics to Wavefront and analyze real-time data with region & offering-wise alerts. - Took ownership of the team's most used API and added clean abstraction, error and performance monitoring along with some enhancements for new bussiness requirements. - Wrote Redis caching support for mobile offers during QBSE's migration to our team's new billing platform. - Reduced support turnaround time by validating frequent customer care call drivers with a Spring + React tool. - Worked as India Site Leader for Open Source, evangelising and building the new Open Source program at Intuit.	Intuit, India
Jul 18 May 18	Google Summer of Code Intern - Added Bazel support for building the gRPC Python codebase, with custom Skylark rules for the Cython modules. - Extend support to tests as well, allowing incremental local and Kokoro (Google internal) CI build & test runs. - Detected & reported issues in rules_python experimental pip support, module level loggers in python frameworks.	gRPC (Cloud Native Computing Foundation)
Jul 17 May 17	Software Engineer Intern - Wrote an end-to-end GraphQL API service in Java for opting out of QuickBooks Online's subscription. - Deployed a Machine Learning model to help Intuit predict potential paid customers for QBO from trial data. - Reduced false positive error reports by 30% from other teams to our team with a revamped internal tool.	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. - Implemented proof-of-concepts to embed a Business Intelligence (BI) solution in the enterprise analytics platform.	ezDI, India
Apr 16 Feb 15	Software Engineer - Kraken 3.0 - 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. - Created an AngularJS frontend for remotely monitoring and controlling the bot's image parameters.	Autonomous Underwater Vehicle Research Group

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	Java, C++, Python, Javascript, HTML/CSS
Libraries / Frameworks	Spring, Spring Boot, Junit, Mockito, React, Redux, Maven, NodeJS, Scikit-learn, OpenCV
Databases	MySQL, MongoDB
Systems / Platforms	Git, Docker, Linux, Android

Projects

- **Parsing and extracting metadata from medical prescription images**
Built the React frontend and Python Flask API for a medical prescription parsing software, with Tesseract for OCR.
- **MetaKGP dashboard**
Built and deployed an Open Source NUS-Mods style dashboard for my university with several utilities for the student community like smart timetable, news aggregator, question paper portal and professor finder to name a few.

Publications

- **Learning to extract comparison points of entity pairs from Wikipedia articles**
Worked on a novel comparative text mining task using relational tuples to model and measure semantic commonality for two given documents and tabulating them. Published at the Proceedings of the 18th ACM/IEEE on Joint Conference on Digital Libraries (JCDL), 2018.