Naresh Ramesh

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Work Experience

Software Engineer — **Intuit, India**
Current
Aug 18
- Migrated new signups for QBSE US to QBO's new billing platform with support for async APIs, cross-channel (Web, iOS and Android) billing capabilities & Redis offer caching for mobile offers.
- Took ownership of the new billing platform's most used API and added clean abstraction, error and performance monitoring along with some enhancements for new business requirements.
- Identified & filled monitoring gaps in the billing platform's highly 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.
- 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.

Google Summer of Code Intern — **gRPC (Cloud Native Computing Foundation)**
Jul 18
May 18
- 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.
- Detected & reported issues in rules_python's experimental pip support and module level logging specification for python frameworks.

Remote Software Engineer Intern — **Weoptit, Finland**
Nov 17
Aug 17
- Built a pipeline to parse and store data from Finnish e-commerce sites to be used for AI based pricing optimisation.
- Wrote the parsers for 21 websites using Python, each deployed to production to periodically fetch data.

Software Engineer Intern — **Intuit, India**
Jul 17
May 17
- 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.

Software Engineer Intern — **ezDI, India**
Jun 16
May 16
- 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.

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

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, Hibernate, React, Redux, NodeJS, Maven, Bazel, Junit, Mockito, Chai, Intern, Scikit-learn, OpenCV, Flask
Databases	MySQL, MongoDB, Redis
Systems / Platforms	Apache Kafka, Docker, Git, Linux, Android

Publications

- **Learning to extract comparison points of entity pairs from Wikipedia articles**   **JCDL 2018**
  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.