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Naresh Ramesh

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Work Experience

Current – Aug 18 | **Software Engineer** | **Intuit, India**
- 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.

Jul 18 – May 18 | **Google Summer of Code Intern** | **gRPC (Cloud Native Computing Foundation)**
- 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.

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

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 - Kraken 3.0** | **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.
- 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, 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.