Kishore Hariharasubramony

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Education

MEng in Computer Science   **Aug 2021** - **Present**
(Virginia Institute of Polytechnic Institute & State University Graduate School) (GPA: 4.0/4.0)
B.Tech in Computer Science
(SRM Institute of Science and Technology, India; CGPA - 8.50/10)   **Aug 2015 - May 2019**
+2 (Higher Secondary School Examination)
(Board of Higher Secondary Education, Kerala; 93.25%)   **2015**
SSLC (Secondary School Examination)
(Kerala State Board; 93%)   **2013**

Technical Skills

Programming: C, C++, Javascript, Python
Tools/Platforms/Libraries: Redis, Google Cloud, Unity, Puppeteer, npm, MySQL, PostgreSQL, Influx, Elasticsearch, Google Education Suite, QuestionPro, Microsoft Office.

Publications

"TRAFFIC SIGNAL DETECTION AND PRE-EMPTION"
(IJRAR - International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138, Volume.6, Issue 2, Page No pp.944-956, June 2019) (https://ijrar.org/papers/IJRAR19K6156.pdf)
- Traffic signal detection using Image Processing Algorithms - Object Extraction and Edge Detections
- Signal preemption implemented using Arduino Uno microcontroller and Zigbee module

Professional Experience

Grader – Applied Software Design (ECE-3574)   **Jan 2022 – May 2022**
- Currently working as a grader for Applied Software Design(ECE-3574) under Dr. Changwoo Min and Dr. Sook Shin Ha.
- Responsible for grading assignments and projects and resolving students' queries related to the subject via Piazza and e-mail.

Software Engineer, Guidanz Technologies Pvt Ltd   **Sep 2019 - Jun 2021**
- Worked on Guidanz reporting service product "Skedler" to generate automated/manual reports for Kibana and Grafana visualization tools for datasources - Elasticsearch(ELK), MySQL, PostgreSQL, Influx.
- Implemented generation of Excel and CSV reports from Grafana dashboards for all data sources by developing query building and response layers with the help of datasource clients.
- Implemented generation (and automation) of PDF and PNG reports using Headless Chrome Puppeteer.
- Implemented Burst filters to generate multiple reports simultaneously from a single dashboard or search or data table by applying query filters.
- Involved in implementation of new gen Skedler (Reports as a Service) hosted in Google Cloud
  - Implemented multi tenancy support for the product.
  - Completely redesigned user management and Role Based Access Control (RBAC)
    - Designed a new database schema.
    - Added backend logic and REST APIs to manage users, organizations and groups.
    - Added support for configuring multiple datasource instances of Kibana and Grafana
    - Added support for configuring multiple Email/Slack notification instances.
  - Implemented RBAC and multi-tenancy for Kibana report generation using security plugins - X-Pack, Searchguard and Opendistro.
  - Implemented micro service architecture.
    - Added new micro services for Report scheduling, Generation and Web (UI).
    - Used Redis message queue for scheduling and queueing.
- Involved in deployment of the product in Google Cloud
  - Includes deployment of micro services as pods in Google Kubernetes Engine.
  - Includes providing infrastructure requirements for each pod/micro service.
  - Includes regular resource/performance monitoring and log analysis for all services.

Software Intern, Infosys Ltd   **Jan 2019 - May 2019**
- Implemented 'Colabs' - question and answer web application to post technical queries

Software Intern, Sundaram Infotech   **Jun 2017 - Jul 2017**
- Developed an Android Mobile Application that can be used to set location based alarm

Projects

- Empirical Analysis of J48, Hoeffding, Reduced Error Pruning and Random Forest Algorithms for Income Prediction and Magic Telescope Data Sets
- Mobile Application for "Human Activity Recognition using Smartphone Sensors" using ID3 algorithm