Anjali Ramchandani

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EDUCATION

- ***University of California, Riverside, (Pursuing)*** | MS, Computer Science, March 2021
  Courses: Distributed Systems, Big Data Management, Introduction to Deep Learning, Advanced Operating Systems
- ***D.Y. Patil College of Engg., University of Pune, India*** | BE, Electronics and Telecommunication, May 2015

KEY SKILLS

C, Go, C++, JavaScript, Git, Linux, HTML/CSS, Hadoop, MySQL,GraphQL, REST, WebSockets, Java, Python

PROFESSIONAL EXPERIENCE

ZTECH
Product Development Intern, June 2020 – Present
- Developing server-side code (with Express.js) and following TDD principles
- Improving system design by utilizing microservices and contributing to product research
- Utilised Express.js, GraphQL, AWS, and leveraged knowledge in Git, API design, system design

INTREPID CONTROL SYSTEMS
Software Engineer, July 2017 – June 2019
- Built an SDK (physical and application layer interfacing) for vehicle network adapters to connect to IoT platforms.
- Developed application demos with FreeRTOS, MQTT, AWS IoT, and other AWS services.
- Leveraged knowledge in MQTT, Git, debugging network packets .

ALBA CONSULTING PVT. LTD.
Software Engineer, Oct 2016 – July 2017
- Developed REST API over websockets in Go for real-time provisioning and user registration.
- Improved code-portability by following microservices and object-oriented principles in a low-level language like C.
- Supervised a team of two for the implementation of SCP based protocol with hashids and AES encryption.
- Leverage knowledge in protocol buffers and gRPC for marshalling and inter-process communication.

PALETTE TECH PVT. LTD.
Software Developer, Sept. 2015 – Sept.2016
- Implemented communication Android and Linux Gateway over TCP/IP sockets.
- Analyzed CPU utilization and temperature parameters with Bash scripts.
- Leveraged knowledge in debugging in C, and debugging using Wireshark protocol analyzer.

KEY PROJECTS

- **TRAFFIC SIGNAL CONTROL USING REINFORCEMENT LEARNING AGENTS:** The goal of this project was to automate traffic signal control and reduce congestion. Implemented and compared two different methods of RL: Deep Q-learning and A2C. Utilised: SUMO, TraCI, TensorFlow. Languages: Python, HTML

- **HOPSCOTCH:** HopScotch gives a route with nearby pubs, based on user's criteria for selection (As a demonstration of Travelling Salesman Problem). Currently limited to 5 nearby pubs. Dataset queried from Yelp on Los Angeles' pubs. Utilized: Hadoop HDFS, PySpark, kmeans, GQL, Google Maps API, Google OR tools. Languages: Python, HTML

- **NEO OBD2 PRO :** neoOBD2 PRO serves as a prototyping tool for creating automotive IoT applications, which we provided with an open-source SDK (https://github.com/intrepidcs/neoobd2_sdk). Utilized: FreeRTOS, multi-threading, IPC (queues), Markdown (documentation), Git. AWS IoT, AWS lambda, Alexa. Languages: C, C++, JavaScript

- **PROJECT BIOSCOPE:** Bioscope is an end-to end platform for IP-CCTV surveillance system with multiple applications. Developed firmware for a gateway device. Implemented stream collectors with a gateway module using gRPC. Other technologies: gRPC, Protocol Buffers, FFMPEG. Platforms: Linux, Raspberry Pi. Languages: C, C++, Go