Mayank Ravishankara

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EDUCATION

Carnegie Mellon University (CMU)   Pittsburgh, PA
Master of Information Systems Management (3.74/4.00)   Aug. 2021 – Dec. 2022 (Expected)
Courses: Object Oriented Programming in Java (95712), Database Management (95703), Cloud Computing (15619), Algorithms & Adv. Data Structures (15650), Distributed Systems for ISM (95702)

Rashtreeya Vidyalaya College of Engineering (RVCE)   Bangalore, India
Bachelor of Engineering in Electronics and Communications   Aug. 2016 – Aug. 2020

SKILLS

Languages: Java, SQL, JavaScript (w/ React, Redux, React-Native), Node.js, C++ (w/ Qt), Swift, Kotlin, Python, C, UML
Technologies: AWS, Google Cloud, Azure, Lambdas, Glue, Terraform, Docker, Kubernetes, Helm, Kops, Neo4j, HBase, MongoDB, Git, Jira, NoSQL, HTTP, REST, GKE, EKS, AKS, Vert.x, Spring, Spark, Scala, Kafka, Samza

WORK EXPERIENCE

Finix Payments   San Francisco, CA, USA
Software Engineering Intern   Jun. 2022 – Aug. 2023
- Evolved merchant report generation pipeline with smart execution of AWS Glue jobs based on transaction and settlement data from payment processors and gateways using AWS Lambda for dynamic dates and global timezones
- Collaborated in building data ingestion pipeline for various types of settlement data to enable Finix as a PayFac

DISH Network (Sling Media Pvt. Ltd. - Sling TV)   Bangalore, India
Software Engineer   Sep. 2020 – Aug. 2021
- Developed and unified WatchParty (virtual co-viewing) feature into legacy Sling TV iOS and Android native applications
- Revamped WatchParty web application in production with real-time fixes and enhanced UX; integrated network adaptive playback sync mechanism to curtail content playback delay across participants to less than 1 second.
Software Engineering Intern   Jan. 2020 – Jul. 2020
- Engineered protocols in C++ and Qt, and designed a serial interface for controlling different commercial TVs using various devices based on Wi-Fi, Bluetooth, and IR from our proprietary set-top box designed for the hospitality industry

Param Machines and Moulds   Bangalore, India
IT Infrastructure Consultant   Jul. 2020 – Sep. 2020
- Implemented Active Directory and Group policies company-wide, reducing administrative and operative costs by 60%
- Augment the organization's global visibility through marketing campaigns, amplifying annual lead generation by 300%

Pramukh Engineering   Bangalore, India
Founding Partner   Dec. 2016 – Dec. 2019
- Remodeled operational processes using enterprise tools to manage workflows reducing project delivery time by 30%
- Coordinated and delivered project worth over $1M by leveraging specialized vendor base and outsourcing activities

SELECTED PROJECTS

High-performance multi-tier web service with large scale data analytics   Mar. 2022
Developed scalable responsive web services on Vert.x using self-managed K8s cluster hosted on AWS in the microservices architecture using TDD, along with RDBMS and NoSQL database from ETL on over 1TB of twitter data.
Configure, populate, and deploy heterogenous databases for a social network web service on cloud   Mar. 2022
Provisioned MySQL, HBase/MapReduce, Neo4j, MongoDB for various data models with indexes, queries, and caching
Containerized real-time web services into microservices in multi cloud K8s clusters on GKE and AKS   Feb. 2022
Evolved web services into resilient, scalable microservices architecture with Docker, K8s and Helm to handle live load
Dynamic resource scaling to maintain QoS of a web service on AWS using CLI, SDKs and Terraform   Jan. 2022
Deployed web service using ELB and ASG on AWS with robust scaling policies to meet dynamic loads within budget
6LoWPAN protocol design for efficient header space utilization for constrained IOT devices   Nov. 2019
Formulated novel OSI Layer 2 and 3 protocols with application based dynamically programmable header space
Traffic violation detection and logging using image processing in MATLAB   Nov. 2018
Developed novel algorithm to process standard number plates and development and implementation of preprocessing algorithm to capture vehicle crossing the stop line and identify violation