Mayank Ravishankara

(412) 892-0743 | mravisha@andrew.cmu.edu | mayankgowda.github.io | linkedin.com/in/mayank-gowda | Pittsburgh, PA

EDUCATION

Carnegie Mellon University (CMU)   Pittsburgh, PA
Master of Information Systems Management (3.77/4.00)   Aug. 2021 – Dec. 2022 (Expected)
Courses: Object Oriented Programming in Java, Database Management, Algorithms & Adv. Data Structures, Distributed Systems for ISM, Cloud Computing, API Design and Implementation, Agile Methods
Teaching Assistant: Cloud Computing – Fall '22

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, Nginx, Redshift

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 projects worth over $1M by leveraging specialized vendor base and outsourcing activities

SELECTED PROJECTS

High-performance multi-tier scalable web services with ETL and large scale data analytics for Twitter   *Apr. 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.

Develop and deploy real-time stream processing backend on AWS EMR for Ride-matching app like Uber   *Apr. 2022*
Implemented a ride-match and ad-match feature with real-time data-streams using Kafka and Samza on Yarn cluster

ML Model for cab fare prediction with feature engineering for improved accuracy on Google AI Platform   *Apr. 2022*
Identify and construct features, tune hyperparameters, train and deploy ML model with test, speech, and image support

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 and implemented novel algorithm to process standard number plates to capture vehicle violations