

ANUSHKA IDAMEKORALA

Graduate Student

Charlottesville, VA 22903 • anb5km@virginia.edu • + 1 (434) 257-8709

Personal Website: anushkai.github.io • [linkedin](#)

PROFESSIONAL EXPERIENCE

COMPUTER SCIENCE DEPARTMENT, UVA

Charlottesville, VA

Research Assistant

AUG 2022-Present

- Explored novel approaches that leverage parallel and distributed computing architectures to achieve faster and more scalable graph processing. I investigated graph analytics techniques to uncover patterns, relationships, and properties within graph data.
- Currently working on the research direction of privacy preserving machine learning.

UNIBENCH

Melbourne, Australia

Associate Tech Lead

FEB 2019- OCT 2019

Senior Software Engineer

JUN 2021- JUN 2022

- Working on **Novatti** payment gateway which is the legacy product of Novatti acquiring. One of the early members of Novati Acquiring and has played a full-stack role contributing to every key component of the payment gateway which followed a serverless architecture..
 - Implementation of reconciliation manager and third party clients to systems such as Starrez and Manoowa to reconcile transactions.
 - Orchestrating Merchant Onboarding through Step functions
 - End to end implementation of PayXCrypto, which is a secure and compliant real-time crypto payment system
- AWS Stack: Lambda, DynamoDb, Api Gateway, SQS, SNS, Secret Manager, App Config, S3, CloudFront, CodeCommit, CodePipeline
- Other Stack: Java, Spring Boot, Javascript, Maven, React, GraalVM, PHP, Git, Bash

PICKME

Colombo, Sri Lanka (SL)

Software Engineer

FEB 2021- MAY 2021

- Working on the Food team of Pickme, which is Sri Lanka's leading taxi hailing and food delivery system. Contributed several components to improve their standards. Key Responsibilities included,
 - Designing and implementation of Microservices which followed an Event driven architecture.
 - Collaborative development with local teams to deliver features.
 - Implementing enhanced monitoring using Prometheus and Grafana.
 - Regression testing services for higher traffic.
- Technical Stack: Go, Kafka, Docker, Kubernetes, Prometheus, Grafana, Git, Bash, SQL

SINGAPORE MANAGEMENT UNIVERSITY

Singapore

Research Engineer

OCT 2019- DEC 2020

- Chatbot based indoor localization system
 - Implemented a rule-based chatbot to identify the building and the floor of the user.
 - Enhanced system to identify nearby landmarks using chat and exactly located the user using breadth-first search based approach. Verified the location with extended questions upon the location.

- o Developed a CICD pipeline for the project using Travis CI and AWS Beanstalk
- Driver guidance system for Cab drivers
 - o Created a cab-passenger simulator to evaluate the efficiency of various cab routine protocols
 - o Analyzed GPS & status logs of drivers, and identified hot spots in the Tokyo region
 - o Developed models to predict passenger demand in Zonal areas depending upon historical data.
 - o Created a service to analyze real-time logs and estimate predict dynamic driver waiting time in each POI(hot spots) and experimented the implementation with the collaboration of **Fujitsu**
- Technical Stack: Java, Python, Docker, Git, Bash, SQL

SYSCO LABS

Colombo, SL

Software Engineer

FEB 2019- OCT 2019

- Working on Sysco Shop, the latest shopping application of **Sysco** (one of the largest food distributors in the world). One of the early members of Sysco Shop and has played a full-stack role contributing to many key components of Sysco Shop application. Key responsibilities included
 - o Designing and implementation of Microservices
 - o Automation scripts with Python, Javascript
 - o Requirement analysis and the end to end designing of major features
 - o Collaborative development with local and US teams
 - o Debugging and Fixing Production incidents in Real Time
- Technical Stack: Java, Springboot, React, Javascript, NodeJS, Git, Bash, SQL

EDUCATION

UNIVERSITY OF VIRGINIA

Charlottesville, VA

Doctor of Philosophy, Computer Science

AUG 2022-Now

GPA 4.0/ 4.0

UNIVERSITY OF MORATUWA

Moratuwa, SL

Bachelor of Science of Engineering, Major in Electronics and Telecommunication

DEC 2014- JAN 2019

GPA 3.65/ 4.2

DHARMARAJA COLLEGE

Kandy, SL

Primary and Secondary Education

2000-2013

Final Grade GCE Advanced Level: Provincial 1st , Island 14th, z-score 2.7130, percentile 99.96%

HONORS AND AWARDS

- IEEEExtreme | Global competitive programming competition organized by IEEE **Moratuwa, SL**
 - o **IEEEExtreme 12.0 Country Rank - 01, World Rank - 60** **2018**
 - o **IEEEExtreme 10.0 Country Rank - 03, World Rank - 106** **2016**
- MoraXtreme | Local competitive programming competition organized by University of Moratuwa **Moratuwa, SL**
 - o **MoraXtreme v1.0 Champions** **2018**
 - o **MoraXtreme v3.0 Champions** **2016**
- AcesCoders | Local competitive programming competition organized by University of Peradeniya **Kandy, SL**

- o AcesCoders v6.0 Runners Up **2018**
 - o AcesCoders v8.0 Runners Up **2016**
- Scholarships for Undergraduate Studies **2014-2019**
 - o Mahapola Meris Scholarship awarded by Sri Lankan Government
 - o Dialog Merit Scholarship awarded by Dialog Axiata
 - o Suba Pathum Scholarship awarded by Sri Lanka Insurance
- Mathematics Olympiad organized by SLMO **2009-2011**
 - o High Distinction winner in 2009,2010, and 2011 years.

TECHNICAL CERTIFICATIONS

- AWS Developer Associate Certification, Reading **Now**
- AWS Certified Solution Architect Associate **June 2023**
- Coursera Certifications authorized by ULUC **2020**
 - o Cloud Computing Concepts, Part 1
 - o Cloud Computing Concepts, Part 2
 - o Big Data And Applications In The Cloud
 - o Graph Analytics For Big Data

REFERENCES

- Prof. Geoffrey Fox, University of Virginia, VA 22903, USA.
- Dr. Nalaka Goonerathne, Novatti Group (ASX: NOV), Australia
- Dr. Tharaka Samarasinghe, University of Moratuwa, Sri Lanka