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Research Interests

Cybersecurity

Digital Forensics

Botnets

Computer Science Education

Distance Learning

Collaborative Learning

Computer-Assisted Instruction

Ashen Gunaratne

Experience

Secure Agility

Lead DevOps Engineer

August 2023 - Present

Sydney, Australia

Lead cross-SaaS integration architect; Design, author, and oversee custom integrations and workflows interconnecting multiple SaaS services.

Singlife

Technical Lead

April 2022 - July 2023

Singapore, Singapore

Mobile backend tech lead; Design, author, and review RESTful API specifications and moderate related infrastructure cohering to compliance and security statutes.

Railsbank

Associate Technical Lead

December 2021 - March 2022

London, United Kingdom

BaaS integrations tech lead; Plan, design, and oversee regulated provider infrastructure integrations conforming to compliance and security statutes.

Railsbank

Engineer

December 2020 - December 2021

London, United Kingdom

BaaS integrations engineer; Design, author, and review regulated provider infrastructure integrations conforming to compliance and security statutes.

Al Iman Schools

Educator

October 2020 - December 2020

Colombo, Sri Lanka

Educator for computer science; Responsible for designing, implementing, and delivering custom tailored curriculums for key stages three, four, and five with emphasis on art of programming and integrating computer science in the domain of other subjects.

British College of Applied Studies

Lecturer

July 2018 - July 2019

Colombo, Sri Lanka

Instructor for *Pearson BTEC HND* in Computing; Responsible for level 5 specialist units: *Computer Systems Architecture*, *Data Structures and Algorithms*, *Discrete Mathematics*, *Network Management*, and *Network Security*.

Exetel PTY Limited

Network Engineer

October 2016 - February 2017

Sydney, Australia

Govern, implement, and troubleshoot real-time traffic steering policies to ensure critical application delivery, value-added services, and user quality of experience driving profitability of key deliverables in the digital data & device space in terms of revenue, users, traffic across 30 Gb/s data link.

IKON Systems (Private) Limited

Chief Information Officer

January 2016 - October 2016

Colombo, Sri Lanka

Direct and manage computing and information technology strategic plans, policies, programs, schedules, and responsible for advertising network's scalability, security, and capacity-planning.

Open Source Contributions

Azure Resource Manager

Terraform Provider

Contributions include feature implementations and bug fixes on existing resource types and data sources.

Databricks

Terraform Provider

Contributions include feature implementations and bug fixes on existing resource types and data sources.

Education

Harvard College

Bachelor of Liberal Arts (A.L.B.)

June 2017 - September 2021

Massachusetts, United States

Computer Science; GPA 3.9 (as of May 2018)

Related studies in linear algebra, statistics and probability, and finance.

Stanford University

MOOC

October 2017 - November 2017

California, United States

Studies in enterprise-level web application deployment with focus on security, reliability, scalability, and cross-browser support.

Harvard University

MOOC

January 2015 - December 2015

Massachusetts, United States

Studies in computer science for real-world domains of biology, cryptography, finance, forensics, and gaming.

Université Catholique de Louvain

MOOC

January 2015 - November 2015

Charleroi, Belgium

Studies in major programming concepts, techniques, and paradigms in a unified framework.

The University of British Columbia

MOOC

January 2015 - October 2015

Vancouver, Canada

Studies in computation as a tool for systematic problem solving in non-computer-science disciplines.

Lakeland Inter-American School

Pearson Edexcel AS Level

June 2014 - July 2015

Colombo, Sri Lanka

Lakeland Inter-American School

Pearson Edexcel Ordinary Level

March 2011 - June 2014

Colombo, Sri Lanka

Projects

Singlife's BaaS provider reverse-engineering

Habitto Money GraphQL and REST backend

Dealt Australia

CaterCare Australia

Honors And Awards

HackerRank

Gold Honours - Problem Solving

Gold honours, five-star proficiency rating, in the domains of algorithms and data structures.

HackerRank

Gold Honours - Python

Gold honours, five-star proficiency rating, in the domain of Python subsuming all language-supported paradigms.

HackerRank

Gold Honours - SQL

Gold honours, five-star proficiency rating, in the domains of SQL subsuming all language-supported paradigms.

Licenses & Certifications

Databricks

Platform Administrator

Databricks

Azure Databricks Platform Architect

Databricks

AWS Databricks Platform Architect

OpenJS Foundation

Node.js Application Developer

HashiCorp

IaC Automation

HackerRank

Python

Academic Service

freeCodeCamp

Curriculum Contributor

February 2017 - Present

Authored guides and specimen solutions for freeCodeCamp certification program challenges on algorithm design.

edX

Content Support Associate

December 2016 - Present

Validate and alter qualitative attributes of uploaded course materials to meet edX guidelines.

Community Service

United Nations

Volunteer Task Force

January 2015 - Present