

## Contact

(+94) 77 429 9712

mail@ashenm.dev

linkedin.com/in/ashenm  
(LinkedIn)

launchpad.net/~ashenm  
(Launchpad)

github.com/ashenm  
(GitHub)

## 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.

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## **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.

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## **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

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### Projects

**Singlife's BaaS provider reverse-engineering**

**Habitto Money GraphQL and REST backend**

**Dealt Australia**

**CaterCare Australia**

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### 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.

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### 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

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## 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.

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## Community Service

### **United Nations**

Volunteer Task Force

January 2015 - Present