

Chathura Colombage

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EDUCATION

UNIVERSITY OF ST ANDREWS PHD IN COMPUTER SCIENCE (DROPPED OUT)

Dec 2018 | St Andrews, UK
Functional & dependently typed programming • Parallel programming • Stencil computation

UNIVERSITY OF SURREY MSC IN INTERNET COMPUTING May 2014 | Surrey, UK

Distinction
Thesis: Comparative Study of Gaussian Processes and Ensemble Methods
Cloud Computing • Network security

UNIVERSITY OF COLOMBO BACHELOR OF INFORMATION TECHNOLOGY

December 2010 | Colombo, Sri Lanka
Project: Online gem auction system in Grails

UNIVERSITY OF COLOMBO BACHELOR OF SCIENCE September 2010 | Colombo, Sri Lanka University colours in rowing

LINKS

Github:// [dewaka](#)
LinkedIn:// [dewaka](#)
Credily:// [dewaka](#)

SKILLS

TECHNICAL

Proficient with:
Java • C++ • Scala • Python
Haskell • C# • \LaTeX
gRPC • REST • Spark • Linux • Docker
Familiar with:
Rust • Kotlin • Go • Terraform • Ansible
Shell • Kubernetes

FUN FACTS

INTERESTS

Functional Programming • Software Verification • Philosophy

HOBBIES

Reading • Running • Hiking • Chess

EXPERIENCE

BLACKROCK | SOFTWARE ENGINEER, ASSOCIATE April 2022 - Current | London, UK

QUANTCAST | SENIOR SOFTWARE ENGINEER

October 2019 - February 2022 | London, UK

- Part of the inventory team responsible for realtime bidding (RTB) stack handling 3.5M req/s in less than 100 ms
- Implemented new functionality in RTB components in **Java** to support notification handling and add support for **OpenRTB** CTV/OTT device bidding
- Wrote **Spark** data processing jobs in **Python**
- Wrote mission critical **gRPC** services in Java supporting the RTB stack
- Investigated and fixed multiple customer critical production issues as part of the on-call

QLEARSITE | SOFTWARE ENGINEER

June 2018 - September 2019 | London, UK

- Added new functionality to in-house data analytic engine in **Scala**
- Enhanced embedded query engine based on **Jython** to support better introspection and wrote custom functions in **Python**
- Wrote the core Excel integration module for the data analytic engine using Apache POCO library in Scala
- Upgraded **Jenkins** build setup to a unified declarative (YAML) process with Python and **Groovy**
- Implemented a POC **Clojure** library and web service for flexible and powerful domain driven data validation based on Clojure spec

PARAFORMANCE | RESEARCH SOFTWARE ENGINEER

September 2016 - December 2017 | St Andrews, UK

- Implemented a bespoke profiling tool based on automated **C++** refactorings using LibClang and other **LLVM** technologies
- Developed **Python** performance testing suite for benchmarking utilising **Docker**
- Developed a bespoke licensing module with **RSA** encryption using C++/OpenSSL
- Ported common C++ benchmark problems to Windows platform using **CMake** and **PowerShell** scripts

GOLD-I | SOFTWARE ENGINEER

September 2012 - September 2014 | Surrey, UK

- Developed an industry first BitCoin feeder for **MetaTrader** platform with **C++**
- Developed a Reconciliation Engine for the MetaTrader platform in **C#**
- Bespoke **Oracle** database solution for MetaTrader platform in **C++**
- Ported core MetaTrader libraries to **.Net** with managed C++ forming the foundation for company's .Net based tool suite

CERTIFICATIONS

2021 **AWS Certified Solutions Architect - Professional**
2021 **AWS Certified SysOps Administrator - Associate**
2021 **AWS Certified Developer - Associate**
2020 **AWS Certified Solutions Architect - Associate**