KHOA BUI

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+1 (587) 974-6826

WORK EXPERIENCE

Pythian   Sep 2022 - Present
Database Associate

- Implemented cost optimization measures to save a client an estimated $43,000 in yearly billing on MongoDB Atlas
- Configure and optimize a fleet of up to 72 AWS RDS instances.
- Managing and optimizing a sharding cluster of 42 MongoDB servers.
- Implemented an encryption-at-rest scheme for a major music streaming server.
- Troubleshooting outage issues relating to database, networking, and security.
- Migrated a MariaDB cluster to Google Cloud Platform(GCP).
- Provide documentation and participate in knowledge transferring between Pythian and our clients.
- Deploying monitoring systems using Prometheus and PMM

Concordia University of Edmonton   May 2020 - Sep 2022
Research/Teaching Assistant

- Implemented the lattice reduction Lenstra–Lenstra–Lovász(LLL) algorithm in C and Python.
- Implemented elliptic curve's point arithmetic and cryptography schemes in Python.
- Provided one-on-one tutoring for a group of 15 students
- Implemented a reinforcement learning A.I. based on Monte Carlo Tree Search to play placement games.
- Developed lecture and lab activities to introduce students to topics in calculus and using software for mathematical research.

Novaco Pharmaceuticals   June 2017 - August 2017
Accounting Assistant

- Organized medicine shipping orders and billings on Microsoft Excel.

EDUCATION

Georgia Institute of Technology   August 2024 - Ongoing
Online Master of Science in Cybersecurity
Concordia University of Edmonton   September 2018 - May 2022.
4th year, Mathematics and Information Technology Double Major   GPA: 3.49.
University of Alberta   September 2017 - May 2018.

CERTIFICATIONS

MongoDB Certified Developer, Associate (C100DEV)   Issued Jan 2023
MongoDB

MongoDB Certified DBA Associate (C100DBA)   Issued Jan 2023
MongoDB

PCA: Prometheus Certified Associate   Issued Nov 2023
The Linux Foundation

Linux Foundation Certified IT Associate (LFCA)   Issued Oct 2022 - Expires Oct 2025
The Linux Foundation

Apache Cassandra 3 Associate Administrator   Issued Dec 2022
DataStax

Apache Cassandra 3 Associate Developer   Issued Nov 2022
DataStax

AWS Certified SysOps Administrator – Associate   Issued June 2024
Amazon Web Services(AWS)

AWS Certified Database – Specialty   Issued April 2024
Amazon Web Services(AWS)

Neo4j Certified Professional   Issued April 2024
Neo4j

AWS Certified Cloud Practitioner   Issued Sep 2023
Amazon Web Services(AWS)