

Kha Tran

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Matthews, NC 28104

EDUCATION

University of North Carolina at Charlotte, Charlotte, North Carolina

Master of Science, Computer Science, August 2022 – August 2023. GPA: 3.8

Coursework: Machine Learning, Algorithm and Data Structures, Database Systems, Parallel Computing, Computer Networks and Communication, Network Based Application Development, Intelligent Systems, Mobile Application Development, Illustrative Visualization, Mining Massive Datasets

Appalachian State University, Boone, North Carolina

Bachelor of Science, Chemistry, May 2017

SKILLS

Programming/Scripting Languages: Java, Python, SQL, JavaScript, C, C++

Frameworks and concepts: Spring, Spring Boot, Express, React, Maven, Git, Github Action, pthreads, OpenMP, MPI, High-performance computing (HPC), MySQL, PostgreSQL, REST API, Networking, Nginx, OOPS, Junit, Unit Test,

EXPERIENCE

Technology Manager - Lexi Nails, Indian Trail, NC,

January 2019 - Current

- Ensured the shop's computer hardware, software, and database management systems, internet server, and telecommunication services are working properly.
- Planned, organized, and controlled electronic data operations.
- Designed, developed, and implemented annual budget systems according to organization's needs.

Specimen Tech - LabCorp, Charlotte, NC,

April 2019 - Current

- Managed patient details on SIS system, ensuring accurate registration and accessioning.
- Processed and routed specimens to staging areas, maintaining proper protocols.
- Packed and shipped specimens to designated lab sites, ensuring efficient delivery.

PROJECTS

Kitchen Equipment Online Store

- Developed a full-stack web app showcasing an online store with user authentication, browsing, searching, cart management, and order processing.
- Utilized React for the frontend, communicated with a Spring backend via API calls, and stored data in PostgreSQL hosted on a cloud provider.
- Implemented a Single-Page Application (SPA) approach, incorporating user authentication and RESTful APIs.

Item Trading Website

- Developed a dynamic item trading web application utilizing MEN stack.
- Employed MVC architectural pattern to ensure efficient data flow and maintainable codebase.
- Leveraged Mongoose ODM to seamlessly integrate MongoDB, optimizing data storage and retrieval.
- Implemented a secure user authentication system, and rigorously enforced server-side input validation and data sanitization.

Credit Scoring with Machine Learning

- Constructed a machine learning model to assess credit risk, achieving 86% confidence using a neural network model.
- Utilized Python's scikit-learn library for data processing, feature extraction, and model testing.

Dynamic Workload Partition in MPI

- Adapted numerical integration for dynamic workload partitioning using a master-worker system.
- Implemented concepts of distributed memory systems and Message Passing Interface (MPI) in a High-Performance Computing (HPC) cluster environment.