TIEN DUNG LE

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EDUCATION

The University of Texas in Arlington   Arlington, Texas

Bachelor of Science in Computer Science   August 2022 – May, 2026

> **Relevant Coursework**: Data Structures and Algorithms, Engineering Probability, Linear Algebra, Object Oriented Software Engineering, Operating Systems, Assembly and Computer Architecture, Theoretical Computer Science, Databases System & File Structures, Fundamental of Software Engineering.

TECHNICAL SKILLS

Languages: Java, Python, Go, C++, C, C#, JavaScript, Typescript, HTML5, CSS, SQL, Swift

Technologies and Tools: AWS, Azure, Docker, Databricks, OAuth, MongoDB, PostMan, GIT, Kafka, Jira, Agile, Waterfall, Unix, Insomnia-REST, OpenCV, TensorFlow, Jenkins, Unity, Spark, Hadoop, SwiftUI, JetBrains Suite

Frameworks: Spring-Boot, ReactJS, NextJS, NodeJS, Angular, React Native, ElectronJs, Django, Flask, TailwindCSS

WORK EXPERIENCE

Southwest Airlines   Dallas, Texas

Automation Technology Analyst intern – Infrastructure Team   Jan 2024 – May 2024

- Conducted comprehensive automation testing on incoming in-flight functionalities for Crew Scheduling System.
- Collaborated closely with business partners to define and incorporate requirements with FICO Blaze Advisor rulings into thousands of user stories, allowing consistent and accurate test results.
- Facilitated seamless migration to a new testing framework, streamlining testing processes and improved team's overall efficiency by 40%.
- Architected and implemented detailed user stories using Cucumber Gherkin, Java and deployed automation test scripts to Docker Compose for certification testing, ensuring all requirements are met and ready for production.

General Motor Financial   Arlington, Texas

Software Development Engineer intern   Oct 2021 – Aug 2022

- Conducted front-end unit testing for Mode by GM Financial, using Angular, C#, TypeScript, and .NET Maui, ensuring optimal performance with a high-volume cloud database and user base.
- Led a team of talented developers to build a cutting-edge, secured banking system, recognized as the winning application in engineering department hosted Hackathon.
- Collaborated closely with senior engineers and architects to learn and contribute ideas for implementations.

PROJECTS

Eigenfaces   **Python, Jupyter Notebook, JetBrains PyCharm**

- Developed Python-based facial recognition system utilizing Eigenface method, processing diverse facial images through analysis, eigen decomposition, compression, and reconstruction.
- Implemented dimensionality reduction techniques to enhance clarity and fidelity, optimizing computational efficiency.

TD Hotels   **TypeScript, SanityIO, NextJS, TailwindCSS, Google OAuth**

- Hotel booking web application with administrator dashboard, with Google and GitHub Open Authorization integrated.
- Achieved 100% Real Experience score from Vercel hosting service on both desktop and mobile devices.

FIXR   **Google Cloud Engine, React Native, Swift, TypeScript**

- Hack UTA 2023 Winner, best use of Google Cloud Engine.
- Check engine light diagnostic software with Bluetooth and SAE J1850 PWN communication protocols between OBD2 port from the ECU and the mobile application.
- Integrated Vertex AI from Google Cloud Engine for seamless data processing and database management.