(437)-343-8395

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Joshua Philip

Employment

Software Developer

ProsoftSynergies

November 2024 - Present

Technologies used: MERN stack (MongoDB, Express, React, and Node.js), Socket.io, AWS EC2

- Developed a customer service chatbot using the MERN stack
 - Used Socket.IO and websockets for real-time conversations
 - o Developed a dashboard for the agents to monitor and respond to users in real-time
 - Website link: https://prosoftsynergies.com/
- Deployed instances using AWS EC2

Software Developer, Intern

SOTI Inc.

May-December 2023

Lifecycle Management of Phones and Mobile Devices Project, Industry Partner: SOTI

- Improved privacy of Android app by researching, and implementing a centralized federated learning system using Java, Kotlin (edge devices), and Python (server-side)
- Rewrote Python preprocessing code in Kotlin and Java for on-device execution
- Trained a TensorFlow Lite model on the CIC dataset to detect malicious connections, utilizing VirusTotal API for connection classification to help with network security
- Incorporated on-device training with TensorFlow Lite

Machine Learning Data Analyst, Intern

Naryant

May-December 2022

Smart Towns: Optimizing Urban Planning Using IoT, Industry Partner: Naryant & Town of Oakville

- Utilized Pandas, NumPy, and GeoPandas to analyze large datasets, geocode bus stop names, map data points, and visualize origin-destination locations with geospatial coordinates
- Ensured code quality through QA testing, evaluating Python code against specified requirements
- Led the design of a 400-person survey that utilized Python tools for data cleaning and analysis

Education

Honors Bachelor of Computer Science (Mobile Computing) - Graduated: December 2023

Sheridan Institute of Technology & Advanced Learning - Oakville, ON

• Cumulative GPA: 3.51 / 4.00

Certifications

Harvard edX Verified Certificate for CS50's Introduction to Artificial Intelligence with Python:

- Topics: Python, graph search algorithms, classification, optimization, reinforcement learning Microsoft Technology Associate: Software Development Fundamentals (MTA):
- **Topics:** ASP.NET, C#, decision structures, object-oriented principles, web services integration **Software Projects**

Real-Estate Management App - SwiftUI, Firebase

- Integrated machine learning algorithms to ensure image compliance
- Developed real-time chat functionality using Firebase for communication between tenants and landlords
- Implemented a property search system to allow Tenants to filter their searches or view nearby properties using a map
- Created a user management system that utilizes Firebase for storage and authentication and a forgot password page for the user to request a password reset

Traffic Sign Recognition using TensorFlow - Python, TensorFlow, OpenCV, scikit-learn

- Designed and built a neural network to classify road signs using the German Traffic Sign Recognition Benchmark (GTSRB) dataset
- Used TensorFlow and OpenCV for deep learning

Skills

Proficient: React, Node.js, SwiftUI, Kotlin, Java, Python, Git, SQL Familiar: C++, HTML/CSS