JOSHUA PHILIP

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EDUCATION

Sheridan Institute of Technology & Advanced Learning **Oakville, ON**
Honors Bachelor of Computer Science (Mobile Computing) Degree *December 2023*
- **Relevant Courses:** Software Engineering, Data Structures and Algorithms, Business Intelligence and Data Mining.

PROFESSIONAL EXPERIENCE

S M Software Solutions Inc. *May 2024 - Present*
Software Developer
- **Technologies used:** MERN stack (MongoDB, Express, React, and Node.js), AWS EC2.
- Developed a real-time customer support chatbot using Socket.IO and MongoDB.
- Built a live chat interface for agents to respond to customers in real-time.
- Designed and developed RESTful APIs using Node.js and Express to handle chat creation, message retrieval, and real-time updates.
- Implemented API endpoints for authentication and access control, securing agent-user communications.
- Deployed incremental updates following Agile methodology, continuously refining the platform.
- Led frontend redesign with React, improving UI/UX with a modern, responsive layout and better navigation.

SOTI Inc. *May 2023 - Dec 2023*
Software Developer
Project: Lifecycle Management of Phones and Mobile Devices.
- **Technologies used:** Kotlin, Java, Python, Tensorflow.
- Developed a full stack fog computing application that focused on the network security of company mobile devices using Kotlin, Java, and Python.
- Rewrote Python preprocessing code in Kotlin and Java for on-device execution.
- Used Network Packet Analyzer to collect real-time connection information on company devices.
- Trained a TensorFlow Lite model on the CIC dataset to detect malicious connections, utilizing VirusTotal API for connection classification.
- Implemented an algorithm on the server to aggregate and update model training weights across devices.

Naryant Inc. *May 2022 - Dec 2022*
Machine Learning Data Analyst
Project: Optimizing Urban Planning Using IoT | Industry Partner: The Town of Oakville.
- **Technologies used:** Python, Numpy, Pandas, GeoPandas.
- 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.

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#, object-oriented principles, web & desktop applications, databases.

SKILLS & INTERESTS

Skills: React.js, Node.js, Express.js, Java, JavaScript, C++, SwiftUI, Kotlin, Python, Git, SQL.

PROJECTS

Real-Estate App - SwiftUI, Firebase
- Built a property search system with filters and map view
- Real-Time Chat: Enabled tenant-landlord communication via Firebase
- User Management: Implemented authentication, storage, and password recovery with Firebase

PacMan Clone - C++, SFML library
Designed and developed a replica of the classic PacMan game
- Implemented a BFS search algorithm for ghost movement around the maze
- Applied object-oriented programming by encapsulating game entities into classes with clear roles, using inheritance for varied ghost behaviors, and polymorphism for flexible AI movement.

Portfolio - Next.JS, Tailwind CSS, React, Typescript, Framer Motion
- A personal portfolio website showcasing my skills, projects, and experience.

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