Mark Chen

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EDUCATION

University of Ottawa — Ottawa, ON
Bachelor of Science in Computer Science, Data Science Option, 8.4/10 CGPA — *Sep. 2023 - Present*

EXPERIENCE

Visitors Admission Intern — June 2022 – Present
Ontario Science Centre — *Toronto, ON*
- Provided technical support and resolved customer inquiries, ensuring a smooth experience for all visitors
- Managed admission and sales systems, maintaining accuracy and efficiency in point-of-sale operations
- Delivered detailed presentations and technical demonstrations, explaining the functionality and mechanics behind advanced technology, such as the IMAX Theatre

PROJECTS

SupplyChain | *Python, Flask, Solidity, IPFS, Docker, Ethereum* — Jan 2025 – Present
- Developed a blockchain-powered application to trace the origins and lifecycle of product components, enhancing sustainability, fair trade, and human rights compliance.
- Created and deployed smart contracts using Solidity on Ethereum to create tamper-proof tracking of supply chain data.
- Integrated IoT devices (RFID, QR codes) to automate real-time data input at various stages of product manufacturing and transportation.
- Implemented Flask APIs for easy communication with the blockchain.

IppeiBot | *React Native, Python, PostgreSQL, Machine Learning* — Jan 2025 – Present
- Built a sports betting prediction app focused on basketball, using models like Logistic Regression, Random Forest, and Neural Networks to make accurate picks.
- Scraped sports data from various websites using Python libraries like BeautifulSoup and Requests to gather historical match information for model training.
- Designed a seamless user interface using React Native for cross-platform compatibility.

Encore | *React Native, Expo, Firebase* — Jan 2025 – Present
- Created a workout tracking app that logs exercises, weights, and user statistics such as height and weight.
- Integrated Fitbit connectivity so that users can automatically log data through Fitbit wearables.
- Implemented Firebase for user authentication and data storage.

Vitals | *React Native, Firebase* — Jan 2025 – Present
- Developed an app to log and monitor blood pressure.
- Provided feedback to users based on recorded data trends.
- Implemented statistical summaries such as average blood pressure over time based on user data.
- Used Firebase for secure data storage and real-time updates.

TECHNICAL SKILLS

Languages: Java, Python, SQL (PostgreSQL, MySQL), JavaScript, Dart, HTML, CSS, R
Frameworks: Flutter, React, React Native, Node.js, Flask, Spring, Material-UI, Next.js, Solidity
Developer Tools: Git, Docker, Firebase, Solace, Kafka, Google Cloud Platform, VS Code, IntelliJ, Eclipse, Figma
Libraries: pandas, NumPy, Matplotlib, TensorFlow, PyTorch, Redux, BeautifulSoup
Certifications: DELF B2 French Proficiency, Standard First Aid with CPR-C, WHMIS

All projects can be seen on my Github or Portfolio website.
References available upon request.