Calvin J. Kattathara

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EDUCATION AND CERTIFICATES

York University   **Toronto, Ontario**
Honors in Computer Science   *Sept 2021 - Expected Graduation, Dec 2025*
- o **Related Coursework:** Data Structures & Algorithms, Objects & Design, Computer Organization & Programming, Machine Learning, Object-Oriented Programming, Databases, Discrete Math, Artificial intelligence

EXPERIENCE

Kyndryl   **Toronto, Canada**
Machine Learning and Artificial Intelligence Intern   *May 2024 – Jan 2025*

Full Stack E-Form Parser
- Developed an Automated Form Parser System: Built a full-stack application **using React, Node.js, PostgreSQL (SQL)**, and **Python Flask** to streamline data extraction and management for banking and financial forms, significantly improving workflow efficiency by automating form parsing and data consolidation.
- Automated Data Extraction: Leveraged **AG Grid** for dynamic and interactive data visualization. Designed the system to automatically extract structured data from uploaded PDFs or wireframe forms, categorizing it into different sections for ease of access and processing.
- Master Table Integration: Implemented advanced **PostgreSQL queries to merge and analyze data** from multiple forms. Enabled historical data comparison and seamless integration of new information with previously processed forms.
- **Full Development Cycle:** Participated in every phase of development, from brainstorming meetings, proof of concept (PoC) creation, and workshops to professional slide decks, presentations, and live demos. Delivered thorough code documentation, scripting, error test cases, and handled end-to-end troubleshooting and demo preparation.

PROJECTS

Marketplace System | Java*, AJAX, Spring Boot, React, MongoDB, WebSockets*   **Toronto, Ontario**
                                                                                                                                Jan 2025 – Mar 2025
- Developed a marketplace platform with auction and Dutch auction features, enabling competitive bidding and streamlined purchase handling.
- Built using MVC architecture with MongoDB for user records, Spring Boot for backend operations, and React for an interactive front-end.
- Implemented secure authentication, real-time bidding, and payment processing while ensuring data integrity and system reliability.

Library Management Systems | *Java, Eclipse, Git, XML, Java Swing*   **Toronto, Ontario**
                                                                                                                             March 2024 – April 2024
- Developed a GUI-based Java application to create an online service platform for a university library's clientele, including students, faculty, staff, and visitors.
- Utilized various software design patterns to ensure the scalability and extensibility of the system.
- Conducted comprehensive unit testing using JUnit and automated testing with Randoop to ensure the reliability and robustness of the application.

S&P 500 Machine Learning Project | *Python, Juypter, Pandas, Numpy, Seaborn*   **Toronto, Ontario**
                                                                                                                             March 2024 – April 2024
- Developed a machine learning algorithm using Python and Jupyter Notebook to predict future S&P prices
- Employing data cleaning and optimization techniques with Pandas and NumPy
- Utilized a variety of performance measurement techniques and methodologies within operational frameworks and pipelines, ensuring comprehensive assessments of processes and systems to optimize efficiency and effectiveness.

SKILLS

Programming: Java, Python, JavaScript, HTML/CSS, SQL, Node.js, React.js, C, R
Tools: PowerApps, AWS, Jupyter Notebooks, Git, PowerBi, Tableau, Open-Ai, Azure DataBricks, Co-Pilot
Frameworks & API: Spring Boot, Flask, PyTorch, TensorFlow, Streamlit, AJAX, WebSockets