Eric Van Hezewijk

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Education

University of Victoria   Expected May 2027
Bachelor of Software Engineering   *Victoria, BC*
- **Relevant Coursework:** Computer Architecture (64-bit ARM Assembly); Software Testing (Java); Algorithms and Data Structures; Software Development Methods (Python);

Technical Skills

Languages: Python; Java; JavaScript; C/C++
Web Development: HTML; CSS; React.js; Node.js
Testing & QA: Unit Testing (JUnit); Boundary & Property-Based Testing; Web Testing (Selenium); Database Testing
Tools & Platforms : Git; GitHub; VS Code; IntelliJ IDEA

Projects

Web-Based Euchre Game | *React.js, Express.js, Node.js*
- Designed and implemented a full-stack Euchre card game with a **React.js** frontend and an **Express.js** backend.
- Built **RESTful APIs** in Express.js for player management, game state updates, card dealing, and round progression, incorporating **input validation**, **error handling**, and health check endpoints.
- Developed a responsive front-end interface in React.js featuring **state management**, real-time gameplay updates, and interactive components for card play and scoring.

Machine Learning Stock Predictor | *Python, NumPy, pandas, scikit-learn*
- Collected real-time stock market data using the **yfinance** library and preprocessed it by cleaning incomplete or faulty entries with pandas and **NumPy**.
- Trained and evaluated a predictive model using **scikit-learn**, applying an 80/20 train-test split and assessing accuracy with tools such as precision_score.
- Enhanced model accuracy by incorporating additional features, such as economic news and the specific day of the week, achieving a 57% success rate in predicting daily stock rises.

Temperature Monitoring and Alert System | *Python, HTML, JavaScript, Raspberry Pi Pico W*
- Developed an **IoT-based** temperature monitoring system using **Python** and a **Raspberry Pi** microcontroller, enabling real-time status tracking of environments like fridges and freezers.
- Designed a responsive web interface using **HTML, CSS,** and **JavaScript**, allowing users to remotely monitor system statuses and interact with the device through a user-friendly dashboard.
- Implemented a **RESTful API** for real-time data communication between the microcontroller and the web interface, improving data visualization and user interaction.

Experience

Oak Bay Public Works   June 2023 – Current
Auxiliary Labourer   *Victoria, BC*
- Plan and coordinate large-scale public events such as road closures and detours, working with cross-functional teams to ensure successful execution and clear communication.
- Maintain accurate records of equipment usage and maintenance schedules, requiring diligent attention to detail.
- Provided excellent customer service by addressing inquiries and complaints from the public, which improved problem-solving skills and the ability to communicate technical information clearly to non-experts.

Hot House Pizza   November 2021 – September 2023
Cook/Driver   *Victoria, BC*
- Improved communication and coordination skills by collaborating with kitchen and delivery staff to ensure smooth operations and efficient service.
- Maintained organization and composure under high-pressure situations, such as during peak hours, demonstrating the ability to handle fast-paced environments.