

# Keegan Sanctis

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## PROJECT EXPERIENCE

**ML and Data Science Research Project** | University of Maryland, College Park, MD, USA **Sep 2025 – Dec 2025**

- Executing the data science pipeline to study the correlation between [U.S. gun ownership rates and fatal shooting incidents](#), including multi-source data collection, preprocessing, exploratory analysis, visualization, and statistical hypothesis testing
- Developing and evaluating supervised ML models (Logistic Regression, kNN, Decision Trees) using engineered features to assess predictive relationships, optimize model performance, and translate model outputs into evidence-based policy insights

## WORK EXPERIENCE

**Full Stack Software Developer & Business Developer** | RoyalTech Electrical, Kuwait **Jul 2024 – Aug 2025**

- Built, designed, and developed [royaltechkuwait.com](http://royaltechkuwait.com) using React, aimed at expanding the company's online presence with future plans to integrate full e-commerce functionality
- Developed a [web-based inventory logging system](#) using React, for streamlined year-end inventory tracking, reducing logging and report generation time by 50%, focusing on structured data capture for efficient analysis of inventory and sales patterns
- Collaborating with marketing and sales teams communicating requirements clearly to integrate SEO best practices, while driving growth through improved social media presence and targeted digital marketing strategies

**Software Developer – Frontend (Co-op)** | D2L, Kitchener, ON, Canada **Sep 2022 – Dec 2022**

- Developed substantial enhancements to essential user interface (UI) elements and libraries within Brightspace, D2L's flagship product, thereby enhancing user experience for a client base of over 1,300 international organizations
- Collaborated with design and product teams, translating user experience feedback into scalable and innovative UI components using JavaScript frameworks (React) and Node.js, resulting in improved platform engagement
- Enhanced the usability and accessibility of Brightspace through strategic and impactful UI development initiatives, resulting in a 15% reduction in user-reported issues

**Software Engineering Consulting – Frontend (Co-op)** | Capco, Toronto, ON, Canada **Jan 2022 – Apr 2022**

- Implemented agile development methodologies to streamline the overhaul of BMO Harris Bank's online banking app
- Seamlessly upgraded the codebase from Angular 5 to 13 and Ionic 3 to 5, demonstrating adaptability while ensuring the application remained technologically advanced, resulting in a page load time decrease of about 35%
- Worked closely with the QA team to identify and rectify post-upgrade bugs, ensuring the stability and reliability of the application through rigorous testing and maintenance of a robust unit test suite

**Software Developer – Full Stack (Co-op)** | Marsh McLennan, Toronto, ON, Canada **May 2021 – Aug 2021**

- Revamped the corporate information systems portal using React and Ionic resulting in a 55% increase in session durations
- Implemented monitoring and automation solutions using Docker and Kubernetes, streamlining infrastructure operations and ensuring system reliability through automated alerts and issue resolution
- Spearheaded and managed an Automated Regression Test Suite with CodeceptJS Testing, leveraging Playwright as the framework, enabling seamless continuous integration and deployment processes, thus reducing testing time by 30%

**IT Support & Quality Assurance (Co-op)** | Pillar To Post, Toronto, ON, Canada **Sep 2020 – Dec 2020**

**Quality Assurance Automation Developer (Co-op)** | Dye & Durham, Toronto, ON, Canada **Jan 2020 – Apr 2020**

## EDUCATION

**Master of Science in Applied Machine Learning** **Anticipated Graduation: May 2027**  
University of Maryland, College Park, MD, USA **Current GPA: 4.0/4.0**

**Bachelor of Computer Science, Minor in Economics** **Graduation Year: 2023**  
University of Waterloo, Waterloo, ON, Canada

## SKILLS AND CERTIFICATIONS

**Languages & Frameworks:** JavaScript, Node.js, React, Angular, Ionic, SQL, C++, C, Kotlin, HTML, CSS, Bootstrap

**ML & Data Science:** Python, Pandas, Scikit-Learn, Jupyter/Colab, Model Evaluation, Feature Engineering, Statistical Modeling

**Technical Expertise:** Object-Oriented Programming (OOP), User-Interface (UI) Development, Database Management, Data Analysis, Software Quality Assurance (QA), Continuous Integration (CI), Agile Methodologies, Business Development

**Codecademy:** [JavaScript](#) | [React](#) | [SQL](#) | [HTML](#) | [CSS](#) | [Bootstrap](#)