

Kayetan Protas

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EDUCATION

Queen's University

Sep. 2023 — Apr 2027

Bachelor of Computing (Hons.) specialization in Software Design

Kingston, ON

Relevant Coursework: Data Structures, Java OOP, Fundamentals of Software Development, Software Quality Assurance, Logic for Computer Science, Operating Systems, Discrete Mathematics I & II

PERSONAL PROJECTS

Machine Learning Malware Detector | *Python, scikit-learn, YARA, CustomTkinter, Pandas, PEfile*

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- Built an open source malware detection engine using machine learning and signature based detection
- Developed automated data preprocessing pipelines using Pandas then trained a machine learning model using a Random Forest classifier in scikit-learn
- Implemented a feature extraction pipeline for file analysis and signature based detection using YARA
- Created a desktop GUI to run scans and display detection results and model performance metrics

Equibill | *React Native (Expo), Supabase, PostgreSQL, JavaScript, Expo Go, Postman, GitHub*

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- Designed and developed a full stack mobile application to track and split expenses, currently deployed on the iOS App Store with 120+ active users
- Created the backend with Supabase and SQL, implemented user authentication, push notifications, invite based user groups and Row Level Security policies for data isolation
- Built the mobile frontend in React Native using state management, component based design, and React Navigation to design app flow
- Tested API routes with Postman and automated tests to verify authentication, Row Level Security access, and data handling

RELEVANT EXPERIENCE

Full Stack Developer

Jan. 2026 — Current

WellnessMD Research Study

Kingston, ON

- Designed and implemented a 13 table PostgreSQL database schema, including relationships, constraints, and data access patterns to support the full application
- Integrated 30+ API endpoints and implemented OAuth 2.0 authentication, secure session management, and protected route handling
- Collaborated directly with medical students and a supervising physician to translate research requirements into technical specifications

Backend Developer

Jan. 2025 — Apr. 2025

Queen's Web Development Club

Kingston, ON

- Worked with a team of student developers to improve the QWeb website by fixing mobile view issues and assisting with backend updates to support new functionality
- Contributed to backend development involving CRUD operations, data handling, and a role based permission system for content updates
- Performed testing and quality assurance using Playwright to validate application behavior, UI flows, and backend integration

TECHNICAL SKILLS

Programming Languages: Python, SQL, JavaScript, TypeScript, HTML/CSS, Java

Developer Tools: Git, Postman, Google Cloud, Azure, Kubernetes, Pytest, Playwright

Libraries/Frameworks: React, ReactNative, Next.js, Flask, Pandas, Dash, Scikit-Learn, PEfile