

# Nicholas Jano

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## Education

### Queen's University

*Bachelor of Computer Science (Honours)*

- **Relevant Coursework:** Data Structures, Algorithms, OOP, Operating Systems, System Level Programming, Software Architecture, Software Quality Assurance, Database Design, Software Requirements, Compiler Design
- **Awards:** Excellence Scholarship for Academic Excellence, Dean's Honour List **4x**

## Experience

### Marmon Rail and Leasing Group - (a Berkshire Hathaway Company)

June 2024 – Present

*Software Engineer I*

*Hybrid*

- Evaluated and utilized the ontology-powered Palantir Foundry platform to build ETL pipelines with Pipeline Builder, create custom LLM functions using AIP Assist, and design dashboards with Workshop and Quiver
- Developed a custom dashboard from scratch in **3 days** using Pipeline Builder, Workshop, and Quiver, improving data visualization and supporting better decision-making
- Built and optimized Azure Synapse data pipelines using Spark-based Data Flows and PySpark notebooks, reducing pipeline runtime by **40%**, and used GitHub for version control and code collaboration
- Designed and implemented Power BI dashboards used by over **1000** business users daily to enhance operational efficiency and support data-driven decision-making through insightful visualizations

### NetSolutionsTime

May 2023 – August 2023

*Software Engineer Intern*

*Hybrid*

- Collaborated with internal partners to gather functional requirements, develop technical specifications, and implement comprehensive test plans, contributing to a **17%** reduction in post-release defects
- Implemented RESTful APIs and microservices for enterprise integration applications that consolidated data for over **15 million** customers of a major financial institution, enabling a comprehensive Customer 360 view
- Customized and deployed code to an MS Azure Cloud Database, including error handling and monitoring systems

## Projects

### LeetBuddy | *React, Tailwind, Express, Redis, Render, NGINX, Docker, Google Gemini API* |

- Developed a Chrome extension for LeetCode with over **2,000** active users globally and a **4.8/5** star rating that provides a personalized AI assistant by leveraging Google Gemini's multimodal capabilities
- Implemented a built-in whiteboard feature for users to draw and visualize complex coding theories, with direct integration to the AI assistant for real-time feedback
- Engineered a microservices backend with centralized error handling, Redis-based session management with circuit breaker patterns, and advanced security (Helmet.js, CORS, rate limiting with bot detection)

### The Bead Hive | *React, Tailwind, Express, Cloudflare R2, PostgreSQL, NGINX, Docker* |

- Built a React SPA showcasing Indigenous artwork with OAuth 2.0 (Google/Facebook) authentication, JWT session management, and RESTful APIs backed by PostgreSQL with rich relational content
- Implemented Docker microservices with multi-stage Node.js Alpine builds reducing deployment size by **70%**, and integrated Cloudflare R2 with pre-signed URLs for secure and scalable media delivery
- Developed role-based access control (owner/admin/artist/user), an automated image pipeline with thumbnail generation, and modular architecture with path aliasing and error handling

### Keep-Up Champions | *Lua, Blender* |

- Developed and monetized a game, 'Keep-Up Champions,' garnering over **15,000** total players with a **86%** positive like to dislike ratio and a **400%** gain on investments
- Programmed the game in Lua with **16K+** lines and optimized it to run within **800MB** of memory during gameplay

## Technical Skills

**Languages:** Python, Java, C++, JavaScript, TypeScript, HTML, CSS, C, C#, Visual Basic, SQL, Swift, Kotlin

**Libraries & Frameworks:** React, Tailwind, Node.js, Express, Spring Boot, .NET, Flask, PyTorch, SQLAlchemy, PySpark

**Developer Tools:** Git, GitHub, Figma, Microsoft Azure, AWS, Docker, MySQL, PostgreSQL, MongoDB, Redis