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 *Hybrid*
- Developed and deployed Spring Boot microservices with REST APIs, using database query optimization and caching to improve backend response times by **35%**, supporting **1,200+** daily users with **99.95%** uptime
- Implemented custom exception handlers and Bean Validation annotations across **8+** Spring Boot services, reducing API error rates by **56%** and decreasing mean time to resolution by **30%** through improved error logging
- Integrated Spring Security with API key authentication and role-based access control across **6** microservices, implementing JWT token validation to secure **15+** REST endpoints serving **10,000+** daily API requests
- Designed **15+** automated data pipelines in Palantir Foundry using transforms and ontology objects to streamline data ingestion, processing **1M+** records daily and reducing manual data preparation time by **70%**
- Optimized Azure Synapse data pipelines with Spark Data Flows and PySpark notebooks, cutting runtime by **40%**
- Built **4** Power BI dashboards with DAX and SQL, serving **1,000+** daily users to track KPIs and business metrics

NetSolutionsTime May 2023 – August 2023
Software Engineer Intern *Hybrid*
- Engineered RESTful APIs and microservices using Flask and SQLAlchemy to aggregate and transform customer data from **10+** source systems, serving **15M+** customers and reducing data retrieval time by **45%**
- Implemented Redis caching layer for Flask APIs to store frequently accessed customer data, reducing database load by **60%** and improving API response times from **800ms** to **200ms** for **80%** of requests
- Built automated test suites using pytest and unittest, reducing post-release defects by **17%** across **8** services
- Deployed **5+** Azure SQL databases with automated backup policies, query performance monitoring, and Application Insights integration, achieving **99.9%** uptime and reducing incident response time by **50%**

Projects

RecapMe | *Kotlin, Jetpack Compose, Spring Boot, Redis, Render, Docker, Google Gemini API* | 🔗
- Launched and scaled a production Android app to **50,000+** users with **60%** monthly active user retention rate
- Architected a scalable backend using Spring Boot, Redis caching, and Docker deployed on Render, supporting **10,000+** concurrent sessions and processing **100,000+** daily API requests with **<100ms** average response time
- Engineered asynchronous message parsing system with Kotlin Coroutines, processing **1M+** messages daily
- Integrated Google Gemini API for LLM-powered summarization with prompt optimization, reducing generation time by **40%** and token processing overhead by **30%** while improving user retention by **25%**

LeetBuddy | *React, Tailwind, Express, Redis, Render, NGINX, Docker, Google Gemini API* | 🔗
- Developed a Chrome extension for LeetCode with **2,000+** active users and **4.6**/**5** star rating, integrating Google Gemini API to provide personalized AI-powered code explanations and debugging assistance
- Engineered an interactive canvas whiteboard with real-time drawing and diagram support, integrated with Google Gemini's vision capabilities to analyze visual inputs and reduce average problem-solving time by **50%**
- Built a scalable Express.js backend with Redis session management and circuit breaker patterns, handling **4,500+** daily requests with **99.9%** uptime while blocking **99%** of malicious traffic through rate limiting and bot detection

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