

# Nicolas Amatuzio . Jarvis Consulting

A Graduate from Seneca's software development degree program which equipped me with a variety of skills which I've been able to apply in the real world. Worked for the municipal government (MPBSD DevOps) as a DevOps developer, leveraging my skills in python data analytics and navigating cloud computing technologies to find cost-saving strategies or create meaningful solutions across multiple teams. Provided technical and operational support to supervisors at Canada bread, leading a team of 15 individuals when needed and providing key performance metrics to plan ahead for days. Previously developed a microservice in AWS leveraging S3 buckets for storage, EC2 for scalability, cognito for authentication, and docker for deployment. Proven experience in a broad spectrum of development such as fullstack development and data analysis with a high regard for communication, teamwork, and delivering efficient solutions in collaborative environments.

## Skills

**Proficient:** Java, Python, Javascript, HTML/CSS, Linux/Bash, Microsoft Azure, RDBMS/SQL, Agile/Scrum, Docker, Git, GitHub, Figma, Trello, MongoDB

**Competent:** CI/CD, Jest, NumPy, Pandas, BeautifulSoup, Typescript, AWS, Google Cloud Platform, Angular

**Familiar:** C/++, C#, .NET, Burp Suite, Express JS, Handlebars

## Jarvis Projects

Project source code: [https://github.com/jarviscanada/jarvis\\_data\\_eng\\_NicolasAmatuzio](https://github.com/jarviscanada/jarvis_data_eng_NicolasAmatuzio)

**Cluster Monitor** [GitHub]: The Linux cluster monitoring agent is designed to scrape hardware information to provide easily digestible usage and hardware metrics for easy data parsing from multiple VMs at once. It utilizes persistent databases in order to preserve disk, cpu, and memory information from the user agent for higher level users to manage. Testing was done using regex playgrounds and bash -x to properly check outputs and variables during runtime. Deployment was done through GitHub and the postgres docker container for the database.

## Highlighted Projects

**Fragments Microservice** [GitHub]: Developed a microservice allowing users to upload and convert various file types to others, providing a secure file management system through AWS infrastructure. Ensured security by normalizing HTML code in files to prevent injection attacks. Deployed an AWS EC2 instance for the reliability and scalability of final production workloads. Implemented AWS Cognito for user authentication and authorization for secure access control. Utilized AWS S3 Buckets for data storage on user accounts, ensuring data integrity by following common best practices such as access control and encryption. Wrote comprehensive unit and integration tests using Jest to ensure functionality and code quality, maintaining a 95%+ test coverage. Maintained code quality by implementing ESLint for linting and enforcing code quality across my codebase. Developed a Docker file to containerize the codebase to ensure no issues were encountered when deploying the microservice. Set up GitHub actions to create a CI/CD pipeline that would automatically install requirements, run unit and integration tests, and deploy the Docker image to Docker Hub for deployment on an EC2 instance

**Personal Website** [GitHub]: Worked with the WebGL rendering engine 3js to create a vibrant, dynamic background for my website. Created animations that play off a ray cast mouse click to allow users to interact with the background through the 3d objects. Developed interactive components such as a card component for the 'flat' portions of the site to give browsing the site a better feel. Created a secret phrase bar that allows users to edit certain aspects of the site to provide a more fun user experience in allowing users to guess what possible phrases there could be. Developed multiple shaders for objects that can be dynamically updated through the secret phrase bar. Adhered to common web development principles to make the site easier to look at and read, especially on mobile devices

## Professional Experiences

**DevOps Developer(I&IT), Ministry of Public and Business Service Delivery (MPBSD) (Jan 2023 - Sept 2023):** Utilized Azure services to create a subscription management system, providing streamlined access to important information directly to managers. Worked with reducing the costs of services and the clutter of unused resources by 10% through flagging unused subscriptions for deletion. Utilized AI models (GPT) with data extraction libraries in Python (pandas, BeautifulSoup, NumPy) to develop a chatbot for faster onboarding by integrating information about systems, operations, and services. Automated data extraction using Azure storage services and Azure Functions to give

the chatbot a strong knowledge base and up-to-date information. Created new database operations and CRUD APIS with Azure solutions to support the integration of new services and ensure solid data management. Redesigned charity hockey event website for a sleeker feel, updating the responsiveness of certain React components and updating database operations to include new sponsors. Coordinated a team of 4 at a Microsoft-sponsored hack-a-thon and conducted user research to understand needs and challenges faced by clients, both those who are technically literate and not, winning the category of most improved government operations

**Distribution and Logistics Database Specialist, Canada Bread Company, Limited (Mar 2021 - Apr 2025):** Worked with logistical Oracle SQL systems to provide information to distribution planners such as volume, inventory, and other key performance indicators. Ensured maximum efficiency with the database through rigorous troubleshooting and updates. Worked with management to schedule around target KPIS. Collaborated with higher management to redesign workflows to improve efficiency of the day. Underwent restructuring of workplace, assisted higher management through creating necessary diagrams to visualize changes.

## Education

**Seneca College (2019 - 2023)**, Honours Bachelor of Technology - Software Development, School of Computer Programming & Analysis - Scholarship (2019 - 2022) - President's List (2020, 2022) - GPA: 3.9/4.0

## Miscellaneous

- Basketball: I often go to the park with my friends on my off time and play basketball, nothing too serious but it's always a fun time.
- Gunpla / Model Kits: I really enjoy building and customizing model kits. I find it very relaxing. I prefer building anything from Digimon, Yu-Gi-Oh, or Armored Core, but honestly if I like the design, I'll build it.
- Competitive gaming: Love fighting games and the complexities that come with learning them. Tekken and Street Fighter are my preferred games.
- Puzzle games: I always enjoy using my brain to think of abstract solutions, which is why I love puzzle games. Baba is you is one of the greatest puzzle games ever. It takes a simple concept and creates some of the most intricate puzzles I've ever had to solve.