

Nicolas Amatuzio . Jarvis Consulting

Hey hey people, I'm Nicolas Amatuzio! I'm a graduate from Seneca's Bachelor of Software Development degree program and have experience in a broad spectrum of development such as fullstack development (Node, React, JS), web security (pen testing, OWASP guidelines), and data analysis (pandas, jupyter notebooks, Power BI). I've previously worked for the municipal government as a devops intern and learned a lot about navigating cloud computing technologies, whether it be cost-saving strategies or the ins-and-outs of services provided by different cloud computing solutions!

Skills

Proficient: Java, Python, Javascript, HTML/CSS, Linux/Bash, RDBMS/SQL, Agile/Scrum, Git, Figma, Trello

Competent: CI/CD, Typescript, Microsoft Azure, 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

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. Testing was done using the -x flag on the bash command which individually prints variable definitions and shows debug echo lines. SQL debugging was done using mock data to ensure relations and integrity was to spec. Deployment was done through GitHub and the postgres docker container for the database. - ./scripts/host_usage.sh - A script that is automated using cron that scrapes necessary hardware information such as cpu, disk, and memory specs. - ./scripts/host_info.sh - A script that will run once and store information about the host in the host table. - ./scripts/psql_docker.sh - A script that will create the necessary docker container with a user generated psql sequence to store host info. - ./sql/ddl.sql - Contains sql table data and structure.

Core Java Apps [GitHub]:

- Twitter App: Curabitur laoreet tristique leo, eget suscipit nisi. Sed in sodales ex. Maecenas vitae tincidunt dui, et eleifend quam.
- JDBC App: Curabitur laoreet tristique leo, eget suscipit nisi. Sed in sodales ex. Maecenas vitae tincidunt dui, et eleifend quam.
- Grep App: Curabitur laoreet tristique leo, eget suscipit nisi. Sed in sodales ex. Maecenas vitae tincidunt dui, et eleifend quam.

Springboot App [GitHub]: Not Started

Python Data Analytics [GitHub]: Not Started

Hadoop [GitHub]: Not Started

Spark [GitHub]: Not Started

Cloud/DevOps [GitHub]: Not Started

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. 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 codebase to ensure no issues were met 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 microservice to a Docker image

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 to 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 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 costs of services and 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 chat bot 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, those of who are both 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 days. 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

XYZ university (2016-2018), Master of Engineering, Electrical and Computer Engineering

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 models preferably anything from Digimon or Yu-Gi-Oh but realistically 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: Solving problems is one of the biggest reasons why I love programming, and also 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.