

JOSHUA GATTO

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Summary

Highly skilled and versatile Software Development Engineer with a comprehensive background spanning the entire software development spectrum, from low-level assembly to high-level Python. I bring a wealth of experience in system design and extensive testing, having contributed over 20,000 lines of code as the lead or majority contributor to several development projects.

Skills

- Proficient in a diverse range of programming languages and scripting tools, ensuring adaptability to various project requirements.
- Mastery of a wide array of tools and frameworks for efficient software development, deployment, and management.
- Experienced in the design and development of embedded systems, utilizing diverse languages and tools for optimal performance.
- Adept at designing and managing databases, ensuring seamless integration and efficient data handling.
- Demonstrated strong problem-solving skills in coursework.
- Proven leadership and collaboration abilities through successful team projects.
- Effective oral and written communication skills refined through project presentations and stakeholder interactions.

Education

Bachelor of Engineering in Software Engineering
Carleton University, Ottawa ON

Sept. 2019 – May 2023

- Final GPA: 3.2/4.0
- Related Course Work: Dev-Ops, Software Architecture, Software Verification and Validation, Cryptography and Software Security, Project Management and Requirements Engineering, Embedded Programming

Building a Brain in 10 Minutes
Nvidia, Remote

Apr. 2024

- A concise yet comprehensive overview of neural network development, focusing on rapid prototyping and deployment strategies within a short timeframe.

Professional Experience

Front-End Developer

Jul. 2023 – Present

Afore, Ottawa ON.

- Crafted and refined web app components for the user end point, resulting in a 30% higher user retention and elevated user experience.
- Researched and incorporated prepared software packages, reducing person-hours by 3%.
- Collaborated with team members to complete and accelerate development resulting in the teams' ability to deliver 10% ahead of schedule.

Order Fulfillment Clerk

May – Aug. 2021/22

SCP PoolCorp, Ottawa ON.

- Efficiently prioritized and fulfilled client product requests, consistently meeting deadlines and exceeding performance metric expectations.
- Conducted regular inventory audits, encompassing daily, weekly, and monthly assessments, to synchronize the electronic inventory management system with the physical warehouse, ensuring precision and operational cohesion.
- Managed the collection of sensitive payment details and executed seamless client charges with utmost discretion and security.

Applied Projects

Full Stack Developer

Jan. – Apr. 2023

Mini Survey Monkey, Ottawa ON.

- Designed a scalable architecture, incorporating React, resulting in a 30% reduction in load times for a high-traffic survey platform.
- Enhanced data retrieval and processing capabilities by implementing a RESTful API using Java and Spring Boot, reducing query times by half for a customer management system.
- Developed and executed comprehensive test strategies for a full-stack application, ensuring 95% code coverage and reducing post-release issues by 43%.

AI Developer

Sept. 2022 – Apr. 2023

Autonomous Vehicle Initiative, Ottawa ON.

- Led the Autonomous Vehicle Initiative capstone project.
- Developed a Regional Convolutional Neural Network for object detection with an accuracy of 93.3%.
- Managed the project using agile techniques, maintaining high efficiency, and ensuring team members remain aligned with objectives.

- Delivered informative reports and persuasive presentations to keep stakeholders well-informed about project lifecycle progress and developments, fostering effective communication and alignment.

Embedded Software Developer

Sept. – Dec. 2022

IRT Systems, Ottawa ON.

- Optimized code in a real-time embedded system, resulting in a 50% reduction in system response times and meeting stringent performance requirements.
- Implemented rigorous error-handling mechanisms in embedded software, leading to a 50% decrease in system failures and enhancing overall product reliability.
- Implemented a deterministic scheduling algorithm and optimized critical routines for a safety-critical project, ensuring on-time task execution and zero safety incidents.

Full Stack Developer

Jan. – Apr. 2022

Simplified Monopoly, Ottawa ON.

- Applied and adapted common software design patterns to develop a robust Java program, resulting in an efficient and maintainable software solution that met project objectives.
- Collaborated effectively with team members to delegate tasks and achieve project goals, fostering a cohesive and goal-oriented team dynamic.
- Implemented rigorous test-driven development practices to ensure intended functionality, assuring the reliability and performance of the software throughout the development process.

Research Analyst

Jan. – Apr. 2021

Green Roofs, Ottawa ON.

- Researched the ecology of green roof systems to meticulously compile a comprehensive final report of findings for the Deep Blue Cleanup organization, highlighting the multifaceted benefits they offer.
- Applied precise editing techniques in accordance with IEEE format to produce documents that strictly adhere to the highest professional industry standards.
- Delivered a formal presentation of the research findings to a panel of Deep Blue Cleanup organization members, transforming the results into a valuable educational resource.

Certifications

Reliability Security Clearance

Mar. 2024-2034

Government of Canada

- Currently in the process of obtaining secret clearance.