

ANTHONY MASSAAD

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WORK EXPERIENCE

Syntronic R&D Canada

Software Developer

Nov. 2024 – Present

Ottawa, Ontario

Skytrac Project

Feb. 2026 – Jun. 2026

- Spearheaded the modernization of Skytrac's REST API platform by migrating services from Python 2.7 to Python 3 and replacing the Bottle framework with FastAPI for powerful asynchronous operations. Leveraged k6 performance testing to identify bottlenecks and improve request throughput, response times, and overall service reliability under load. Improved success requests under normal and spike traffic test by 40% overall.
- Contributed to the establishment of a Kubernetes-based development environment by cloning and migrating the staging database, deploying FastAPI services, and troubleshooting cluster issues across AWS and local environments to improve development and testing workflows.
- Collaborated with cross-functional teams at Skytrac to optimize backend microservices by eliminating unnecessary caching across multiple subsystems, reducing computational overhead and improving service stability. Developed reusable pytest-based validation frameworks for log processing and database integrity testing, increasing test coverage and improving confidence in production deployments.

Ericsson Project

Nov. 2024 – Jan. 2026

- Provided lab support through Jira, diagnosing and resolving customer-reported incidents related to network, device configurations, test environments, and overall ensured timely closure of tickets to reduce downtime.
- Collaborated with the automation team to design and implement a verification pipeline for code commits and merges, integrating linting, security scans, automated testing, and documentation validation to ensure consistent code quality and deployment integrity.
- Collaborated with other teams to plan and execute lab migrations on demand, including hardware relocation, reconfiguration of network topologies, and validation of the system integrity post-migration.
- Enhanced and maintained internal monitoring tools for access servers through Python, Ansible and Jenkins to improve system reliability and observability.

Irdeto

Sept. 2022 – Sept. 2023

Software Developer

Ottawa, Ontario

- Developed and maintained the Irdeto Reference Cloud App (IRCA) using Next.js and TypeScript, delivering scalable and user-friendly web applications.
- Leveraged AWS, Azure, and Auth0 to build and support a secure cloud-based platform with high availability and reliable authentication services.
- Designed and developed a TypeScript-based internal component library that standardized web development practices and reduced development time by 25% across projects.
- Developed a Slack bot during a company hackathon to automate GitLab merge request tracking, improving team collaboration and streamlining development workflows.

Elections Canada

Jan. 2022 – Oct. 2023

Website Designer and Developer

Ottawa, Ontario

- Developed and maintained web applications for multiple teams within the Digital Transformation Branch using HTML, CSS, JavaScript, and modern JavaScript libraries.
- Collaborated with stakeholders to gather requirements, design solutions, and deliver user-focused web experiences aligned with business objectives.
- Improved developer productivity and user experience by creating reusable styling and JavaScript frameworks, developing custom search functionality, and implementing interactive web components.

SKILLS

Languages: JavaScript, Python, HTML, CSS, PHP, Java, C, SQL, JSON, XML, Ejs, Makefile, Shell, Groovy

Tools & Frameworks: Git, NoSQL, Linux, IntelliJ, Visual Studio Code, PyCharm, Node.js, Express, Socket.io, React, TypeScript, SCSS, UNIX, React-Native, Docker, Jira, Prisma, Spring Boot, Expo, Jenkins, Ansible, Kubernetes, PostgreSQL, K6, FastAPI

PROJECTS

E-Commerce Store Website ([GitHub Link](#)) — React-Typescript, Prisma, SCSS, JWT

Sept. 2024

- Developed a full-stack e-commerce web application replicating real-world shopping workflows using Next.js, TypeScript, and Prisma ORM with a PostgreSQL backend.
- Leveraged PrimeReact and PrimeFlex for responsive UI components and layout structure, complemented by custom SCSS modules for extended styling and visual refinement.

Music Genre Classifier ([GitHub Link](#)) — Python, Machine Learning, Deep Learning, Transfer Learning

Apr. 2024

- Developed a machine learning model using a combination of Convolutional Neural Network and a Support Machine Vector to classify audio files to their Genres.
- Used Transfer Learning through a pretrained model tuned to work with the problem at hand.
- Used tuning techniques like Grid Search to optimize both models for better performance.

EDUCATION

Carleton University

Bachelor of Software Engineering with Co-op

Sept. 2019 – Apr. 2024

Ottawa, Ontario

- **CGPA:** 10.25/12 (A-)