

Sebastian Mollejas

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EDUCATION

University of Guelph

Bachelor of Computing, Computer Science

Guelph, ON

Sept. 2021 – Apr. 2026

EXPERIENCE

Software Engineer Intern

May 2025 – Aug. 2025

Magnet Forensics | React, Redux, C#, ASP.NET Clojure, Jenkins, PostgreSQL

Waterloo, ON

- Contributed to two releases of Magnet Automate, a digital forensics orchestration platform, by building scalable features across a React.js, .NET/Clojure services, and PostgreSQL.
- Optimized the case log viewer with React virtualization, boosting log load times by **53%** and cutting browser memory usage by **800 MB**, resolving user-reported performance issues
- Executed E2E tests using Cypress, decreasing bug rate by **15%** and enhancing system stability

Software Engineer Intern

Jan. 2025 – Apr. 2025

ATS Corporation | React, C#, ASP.NET, MySQL

Waterloo, ON

- Helped deliver the MVP of a full-stack web app for designing Symphoni™ machines—a cutting-edge, high-speed manufacturing platform—engineered with React.js, .NET, and MySQL
- Implemented a CSV parsing tool to import/export PLC scripts, automating setup workflows and reducing manual configuration time by **42%**.
- Built a C# library responsible for multi-axis motion calculations, enabling movements capable of **40–1100** parts per minute, improving speeds by up to **5x** without compromising precision

Software Engineer Intern

May 2024 – Aug. 2024

Rodan Energy Solutions Inc. | C#, ASP.NET, Azure, MySQL

Mississauga, ON

- Developed the Bid Automation API, a .NET Web API for real-time market operations with the Independent Electricity System of Ontario
- Delivered over **15+** RESTful endpoints using ASP.NET Core and integrated Swagger for API testing and documentation
- Secured access for **400+** market participants by integrating Azure Key Vault, ensuring robust credential management

Software Engineer Intern

Sep. 2023 – Dec. 2023

University of Guelph — Greenbug Energy | Python, Django, JavaScript, Docker

Guelph, ON

- Refactored legacy Python systems into Django and containerized via Docker, enhancing readability and scalability
- Integrated Celery-based task queues driven with real-time progress indicators, resulting in a **37%** reduction in job builder estimate times
- Reduced backend API latency by **44%** by optimizing queries through Django's ORM and streamlining endpoint logic

Research Associate

May 2023 – Aug. 2023

University of Guelph — Food Science | Python, Pandas, Flask, JavaScript

Guelph, ON

- Created a Triglyceride Prediction tool, optimizing scripts with Pandas raising processing speed by **50%** for lipids
- Enabled bulk uploads of **100** files and automated calculations using JavaScript, saving researchers **12 hours** weekly

PROJECTS

DropPulse | Python, AWS, MongoDB

- Launched a Shopify inventory monitoring system integrated with community alerts via Discord, achieving **100%** uptime and **sub-5s** alert and checkout time for product drops.

TECHNICAL SKILLS

Languages: Python, C#, JavaScript/TypeScript C, Java, SQL, HTML/CSS

Frameworks/Tools: ASP.NET Core, EF Core, Django, React.js, Redux, Node.js, Express.js, REST, MongoDB

Platforms: Azure, Docker, Linux, AWS, Jenkins, SQL Server

Dev Tools: Git, GitHub, Azure DevOps, Swagger, Postman, Celery, Jira, Confluence