Leen Kamalmaz

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EDUCATION

University of Waterloo   *Sep 2021 - Apr 2026*
Bachelor of Software Engineering, Artificial Intelligence Minor
- Capstone Design Project (Sep 2025 - Apr 2026): Developing an Agent Version Control Protocol (AVCP) that enables versioning, deployment, and monitoring of AI agent components
- AI Research Assistant (Sep 2025 - Dec 2025): Contributing to research on autonomous mobile robots, including localization, object detection, mapping, motion planning, and control in real-world robotic platforms

WORK EXPERIENCE

Datadog | Software Engineering Intern   *May 2025 - Aug 2025*
- Redesigned a core data pipeline in Go by replacing a custom data format with Apache Arrow and streaming it using Arrow Flight, thus removing redundant conversions and simplifying cross-service communication
- Benchmarked the new design, showcasing 47% fewer memory allocations and 12% faster data formatting
- Delivered a 24% reduction in query latency at a production scale exceeding 8,000 queries/sec, reducing CPU overhead and enabling higher system throughput

Clio | Software Engineering Intern   *Jan 2025 - Apr 2025*
- Enabled the pausing and undoing of individual imports in the Manage app using Ruby on Rails, improving control over the import process
- Developed a Ruby command for Goatbot, a Slack-integrated bot, to retrieve thorough AWS Workspaces data and generate a CSV report

Manulife | Software Engineering Intern   *May 2024 - Aug 2024*
- Migrated over 50 critical SQL queries from Oracle SQL to Azure Synapse and SQL Server, ensuring compatibility with new database structures by modifying field mappings, optimizing conditions, and handling system-specific attributes
- Automated data workflows using TypeScript, cutting time from 4+ hours to under one hour with a 0% error rate

Isotope Tracer Technologies Inc | Software Engineering Intern   *Sep 2023 - Dec 2023*
- Digitized lab workflows using VBA and SQL, improving efficiency by 85% and cutting data retrieval time by 40%

BlackBerry | Software Engineering Intern   *Jan 2023 - Apr 2023*
- Developed autonomous driving features on the QNX OS in C/C++ with ROS2, processing sensor streams to detect obstacles, plan routes, and send precise commands to the vehicle
- Trained and deployed a machine learning traffic-sign recognition model with OpenCV, achieving 91% accuracy

Kambeo | Software Analyst Intern   *May 2022 - Aug 2022*
- Updated group pages using React, Redux and TypeScript, and automated email notifications for 4000+ users

EXTRA-CURRICULARS

Women in Computer Science | Co-Chair / Systems Administrator   *Jan 2022 - Apr 2024*
- Organized weekly events for 1,600+ women in computing and served as the liaison for organizations and sponsors
- Enhanced website visual consistency and added an event carousel using React, leading to a 27% increase in traffic

Tech+ UW | Fullstack Developer / Outreach Lead   *Jan 2022 - Dec 2023*
- Built accessibility features for the Tech+ Portal, ensuring a user-friendly experience for 100+ mentors and mentees
- Used React, JavaScript, HTML, and CSS to translate Figma designs into fully functional authentication pages
- Led a 10-member team to develop marketing campaigns for community events, and reached over 2,700 members

SKILLS

Languages: C++, C, Python, Go, JavaScript, TypeScript, SQL, Ruby, Visual Basic, HTML, CSS, Sass, Java, PHP, Bash
Tools: React, Redux, OpenCV, ROS2, Ruby on Rails, MongoDB, Git, Figma, Illustrator, Photoshop, Premiere Pro