Cedric Hansen

613-898-2930 ❚ ceddy29@yahoo.ca ❚ Ottawa, ON ❚ https://cs.oswego.edu/~chansen ❚ www.linkedin.com/in/cedric-hansen/

SUMMARY

A proactive software developer with a track record of delivering robust, high-performance software solutions while prioritizing customer needs. Effective communicator and leader with a strong focus on teamwork, cultivated through experience as an NCAA hockey player. Eager to leverage my skills to contribute to a dynamic team environment.

KEY SKILLS

- Proficient in: Java, golang, Dart/Flutter, C/C++, Javascript, SQL

- Familiar with: Bash, Python, C#, HTML/CSS

- Concurrent programming

- Computer networking

- Proficient in: Docker, Bazel, Git, Jenkins, AWS, Maven, GCP, Guice

- Open source contributor

- Agile methodologies

- Strong quality assurance and requirements engineering knowledge

- Proficient in: French and English

- Excellent communication and collaboration

EDUCATION

Software Engineering B.S.
Mathematics minor
SUNY Oswego - 3.87 GPA

AWARDS

- SUNY Oswego Outstanding Senior in Software Engineering

- SUNY Oswego Donald Snygg award (top student athlete)

- NCAA Academic All American

- SUNYAC Elite 20 (x2)

- Men's Ice Hockey Academic Excellent (x2)

PROFESSIONAL EXPERIENCE

Square - Risk
Senior Software Engineer ❚ *Ottawa, ON* ❚ *Oct 2021 → Present*

- Designed & built risk controls for Unlinked Refunds product, enabling high-volume sellers (processing over $200M/year) to start using Square.
- Closely collaborated with Data Science and Product to identify strategies to bolster risk controls, while providing a delightful user experience.
- Integrated a third party email service into risk controls, which identify >10k fake accounts per week, resulting in over $5M/year in fraud losses saved.
- Created controls for fraudulent actors who were using spoofed user agent strings. Responsible for saving ~$1.8M/year.
- Implemented biometric controls for onboarding, which identify over 5k fake accounts per week. Responsible for saving >$2M/year in fraud losses.
- Built a parallel task execution framework to decrease latency of sync risk evaluations, reducing integration time of new data sources by ~50%.
- Created Third Party data framework to signalize feature data into ML platform, reducing integration time for new data sources by ~20%.
- Optimizing JVM/GC settings, which reduced paging volume by ~15%, shrunk machine sizes (saving ~20% in host costs), and increased throughput ~5%.
- Created, and maintained documentation for various ML tools within Square.
- Closely collaborated with various product teams to implement risk controls appropriate for the product, and market.

IBM - Runtime Technologies
Software Developer ❚ *Ottawa, ON* ❚ *May 2019 → Oct 2021*

- Focused on improving performance of GC policies in OpenJ9.
- Improved Balanced GC policy to reduce total GC pauses by up to 300%, by dynamically adjusting eden size, after extensive performance testing.
- Introduced a "target pause time" feature for Balanced GC policy, which allows this GC to have a soft pause time target (-Xgc:targetPausetime).
- Open sourced, and added to "Synthetic GC Workload" (git) test framework.
- Resolved several user raised issues.

Hansen Lawn & Gardens/Routemate
Software Developer ❚ *Ottawa, ON* ❚ *Jan 2020 → October 2021*

- Independently developed web application to help improve ease of daily operations, including navigation, routing, forms, and customer contacts.
- Developed using Flutter, Dart, Go, Mongodb, AWS, and various API's.
- Application has been in use for ~4 years, by 30+ daily users.

Novelis
Automation Engineer Intern ❚ Oswego, NY ❚ May 2018 → Dec 2018

- Developed a plant wide QR system for maintenance forms, including daily report dashboards, which reduced time taken to process forms by 50%.
- Independently created an application to generate QR codes for future forms.