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## Summary

Langs./Data/DB High: Python, JS, Go, C#, Java, JSON, Postgres; Medium: PHP, COBOL; Low: Bash/Perl, C++

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## Education

- 2024-(05/27) **Ph.D. in Computer Science**, *University of Quebec - ÉTS (Prof. Aris Leivadeas)*, Montreal - QC
- (done) 2022-2024 **Master in IT (M.Eng.)**, *University of Quebec - ÉTS (Prof. Aris Leivadeas)*, Montreal - QC
- (done) 2019-2022 **Bachelor of Science in Computer Science (B.Sc.)**, *University of Montreal*, Montreal - QC
- (done) 2016-2019 **Cegep diploma in Computer Science**, *Maisonneuve College*, Montreal - QC, [Technic 3 years]

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## Research Experience

- July 24 - Present **Doctoral Researcher**, *University of Quebec - ÉTS (Prof. Aris Leivadeas)*, Montreal - QC
  - Working on Quality Assurance on a broader scale (IBN, Cloud, etc.) and using ML models (LSTM, LLM for time-series, Transformers, etc.) for multiple situations (precarity of data, no/few-shot learning, etc.).
  - Using time series on multiple cases like the resources utilization prediction problem in IBN's intent assurance.
- June 23 - July 24 **Research Assistant**, *University of Quebec - ÉTS (Prof. Aris Leivadeas)*, Montreal - QC  
[1 y. 1 mth.]
  - Working mainly on proactive Quality Assurance subjects with the help of Machine Learning (i.e. IBN, etc.).
  - Obtained "Excellent" (best grade) on report, and article accepted [1] in a conf. category with an acceptance rate of only 11.9% by doing most research steps: writings, literature rev., figures, experiments, coding, etc.

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## Publications

- Published - [1] **2024, S. Lévesque, X. Zheng, J. Violos, A. Leivadeas, M. Falkner**, "An Incremental Learning Assurance Approach for Intent Based Networking enabled Data Centers", The Fifteenth International Conference on Information, Intelligence, Systems and Applications (IEEE IISA 2024)  
First author  
Conference Paper

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## Teaching Experience

- Aug 23 - Present **Teaching Professor - Comp. Sci.**, *Ahuntsic College*, Montreal - QC, Full-charge (tenure track)
  - Managing groups totaling 125-150 students/session by leveraging automated grading of homework files, reducing grading time by 90% of normal manual labor. Subjects: ML, Web, Excel, Programming, etc.
- Jan 23 - Present **Lecturer - Multimedia (Web)**, *Maisonneuve College*, Montreal - QC, Contractual
  - Have full autonomy on courses' content: created slides, assignments, exams, etc. and lectured the course.
- Aug 23 - Dec 23 **Teacher Assistant (TA)**, *University of Montreal & Quebec - ÉTS*, Montreal - QC, Contractual  
Sep 19 - Jan 22  
[2 y. 9 m. total]
  - Did a huge amount of TA contract totaling +1500 hours and around 15 courses which accounts to around 20 with repetitions (multiple groups) by being open to new knowledge and adapt to new settings and profs.
  - Leading labs and graded assignments/exams copies of 100-200 students per session trough up to 15 different courses total by leveraging automated grading, reducing grading time by 75% of normal manual labor.
- Sep 17 - May 18 **Tutor**, *Maisonneuve College*, Montreal - QC, Contractual  
[9 mths]
  - Assisted students and successfully answering 95% of questions by being up-to-date and knowledgeable.

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## Professional Experience

- July 23 - Present **Co-founder**, *Fractale Vision (<https://fractale.vision>)*, Montreal - QC
  - Acting CTO, CFO, CLO (Chief Technology, Financial, Legal Officer) and Web/Solutions Architect.
  - CTO**: Managing App solutions and a multidisciplinary team (AI, backend, frontend, etc.) of technical collaborators and interns of size 10+ by offering mentorship, hands-on help if needed and high availability.
- June 22 - July 23 **Software Developer (Consultant)**, *Alithya*, Montreal - QC, Full-time - Permanent  
[1 yr 1 mth]
  - Understood client's legacy infrastructure and insurance financial programs in COBOL aged from 1987.
  - Designed a "multi-batch" cluster with bi-direction data communications to reduce COBOL mainframe LOC by 90% on new Golang codebase and reduce time complexity to  $O(n)$  instead of  $O(n^2)$  in practice.
- May 20 - Aug 20 **Full Stack Web Developer**, *University of Montreal*, Montreal - QC, Contractual  
[4 mths]
  - Deployed 2 important features to production before key presentations with stakeholders (faculty and profs) by maximizing/overclocking work efforts on high impacts deadlines with high visibility for the leadership/team.
- Dec 16 - Sep 19 **Clerk**, Montreal - QC, Full/Part-time  
[2 yrs 10 mths]
  - Did day/night shifts and called 0 times sick by aliging with the employer's needs and my course schedule.
- Mar 19 - May 19 **Full Stack Web Developer**, *Cookit*, Montreal - QC, Full-time - Internship  
[3 mths]
  - Pushed 3 features to production (end users) as an intern by showing trust and meeting deadlines 20% early.