Sevag Baghdassarian

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Master's student in Computer Science at McGill University. Member of the Montreal Institute for Learning Algorithms (Mila). Passionate problem solver.

Skills

Programming Languages: • JavaScript/TypeScript • Python • Java • C/C++ • R • SQL

JavaScript Libraries: • Node.js • React • Next.js • React Native • Tailwind

Python Libraries: • PyTorch/TensorFlow/Scikit • Pandas • NLTK • OpenCV • Matplotlib/Seaborn • Pymatgen/DeepChem

Cloud Services & Database Systems: • Amazon Web Services (AWS) • Microsoft Azure • Firebase • MongoDB • MySQL

Development Tools: • Git/GitHub • Docker • Redmine • Wiki • Jupyter

Spoken Languages: • English (native) • French (native) • Armenian (native) • Turkish (intermediate)

Education

Master of Science in Computer Science (Non-Thesis)
McGill University

📅 Aug. 2023 – May 2025 (Expected)   📍 Montreal, Canada

- **Interests:** Data Science, Machine Learning, Natural Language Understanding/Processing
- **Roles:** Head Teaching Assistant for COMP 273 – Introduction to Computer Systems
- **Organizations:** Montreal Institute for Learning Algorithms (Mila)

Bachelor of Science in Computer Science, Minor in Mathematics
McGill University

📅 Aug. 2020 – Jul. 2023   📍 Montreal, Canada

- **Cumulative GPA:** 3.72/4.00
- **Coursework:** Artificial Intelligence, Machine Learning, Reinforcement Learning, Computer Vision, Robotics and Intelligent Systems, Statistics, Database Systems, Operating Systems
- **Organizations:** Armenian Students' Association (VP Finance), McGill Chess Club

Professional Experience

Prompt Engineer
Matador.ai

📅 Oct. 2024 – Present   📍 Montreal, Canada

- Collaborating with product and development teams to optimize AI models.
- Working with dealerships to design and develop optimal prompts.
- Monitoring and evaluating LLM performance.

Machine Learning Research Assistant | Mitacs Fellow
Chemia Discovery

📅 May 2024 – Sept. 2024   📍 Montreal, Canada

- Building and training machine learning models to accelerate material discovery.
- Using novel techniques in the material discovery field for material property prediction.
- Building cloud solutions with AWS and Microsoft Azure for model training and deployment.
- Nominated for Mitacs Outstanding Innovation Award for work performance and contribution.

Head Teaching Assistant | COMP 273 – Introduction to Computer Systems
McGill University

📅 Aug. 2023 – Present   📍 Montreal, Canada

- Managing TAs and assigning workloads.

- Resolving conflicts and issues with students while maintaining communication with the professor.
- Guiding students through difficult concepts such as computer architecture and Assembly programming.

Software Integration and Testing Engineer Intern
Lockheed Martin Corporation

📅 May 2022 – May 2023   📍 Montreal, Canada

- Unit testing of proprietary software and code reviewing.
- Bug logging and documentation (Redmine, Wiki).
- Communicating issues and requirements with software leads, developers and clients.

Projects

coderpal.dev

A website to find partners for coding projects.

`TypeScript` `Next.js` `Tailwind`   ⌗ coderpal.dev

Stereotypical Bias in Pretrained Language Models

A research project analysing the robustness of Large Language Models (LLMs) to stereotypical bias.

`Python` `LLMs` `Responsible AI`   ⌗ Stereotypical-Bias-in-Pretrained-Language-Models

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Food Product Scanner App

An app allowing the user to scan a food product's barcode to gain nutritional insights about the product, using the Open Food Facts API.

`JavaScript` `React Native`   ⌗ Food-Product-Scanner-App

Armenian Dialect Detector

Trained different ML models to determine whether texts correspond to Eastern or Western Armenian with great performance.

`Python` `NLP` `scikit-learn`   ⌗ Armenian-Dialect-Detector

Scholarships and Awards

Mitacs Outstanding Innovation Award Nomination (2024)
Chemia Discovery

Nominated for the Mitacs Outstanding Innovation Award by Chemia Discovery for bringing advancements in the company.

Jirayr and Houry Zakarian Scholarship (2023)
Armenian Relief Society

Among two students to receive a merit scholarship of $1000 for scholastic achievement and community involvement.

Faculty of Science Graduate Supplement Award (2023)
McGill University

Received an entrance scholarship of $1750 for an application dossier of exceptional caliber.

Québec Perspective Scholarship (2022-2023)
Ministry of Education of Québec

Received merit scholarships of $2500 per successful semester.

MES Merit Scholarship (2021)
Ministry of Education of Québec

Received a merit scholarship of $1000 for academic performance.