

# MALEK OSCAR AZADEGAN

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## WORK EXPERIENCE

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**Undergraduate Research Assistant (Software & UI)** February, 2025 – Ongoing  
*Concordia University*

- Assisting in the rewrite of Dative, a field linguistics database for collaborative linguistic data collection.
- Working with Clojure/ClojureScript, React, and PostgreSQL, containerized with Docker.

**Innovation Lab Team Leader** January, 2024 – Ongoing  
*Concordia University Innovation Lab*

- Guiding multidisciplinary teams through project planning, technical direction, and execution.
- Defining project scope, aligning team efforts, and ensuring timely delivery of key deliverables.
- Balancing development and mentorship, fostering collaboration across researchers, developers, and stakeholders.
- Supported MVP and proof-of-concept development for projects spanning AI-driven chatbot design, UI/UX testing platforms, and information extraction systems.

**Undergraduate Teaching Assistant** January, 2024 – Ongoing  
*Concordia University*

- Assisting in teaching phonology and semantics courses, leading tutorials and providing support to students.
- Holding office hours, responding to emails, offering one-on-one guidance, and grading tests and assignments.

**Software Developer Engineer Intern** May, 2024 – August, 2024  
*Amazon*

- Developed an applet-based automation service triggered by a high-throughput microservice, processing up to 1,000 financial transactions per second to streamline data access for partner teams.
- Contributed to the React frontend and collaborated on integration.
- Provisioned cloud infrastructure with AWS CDK, maintaining 98%+ test coverage.
- Authored a low-level design document outlining architecture, cost analysis, and implementation details.

**Undergraduate Research Assistant (Software & UI)** October, 2023 – December, 2023  
*Concordia University*

- Implemented software for the SEARCH AND CHANGE phonological model using a toy grammar.
- Developed a responsive web app using SvelteKit and TypeScript, optimized for mobile and desktop.
- Defined requirements through discussions with the lead researcher and analysis of research papers.

**Innovation Lab Player** January, 2023 – May, 2023  
*Concordia University Innovation Lab*

- Interviewed micro business owners in a disadvantaged neighborhood to identify barriers to online presence.
- Created Figma mockups for website describing business onboarding process on various social media platforms.

**Software Developer Intern** September, 2022 – December, 2022  
*Nerosolve Ltd.*

- Assisted a senior developer in a software consulting venture, aiding in the completion of an IMDB-like project.

## PROJECTS

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**Delongify** – A URL shortener built with Go and MongoDB, with CLI support for concurrent processing.

## EDUCATION

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**Bachelor of Computer Science, Minor Linguistics** August, 2020 – May, 2025 (Expected)  
*Concordia University*

## SKILLS

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- **Programming/Markup Languages** - Python, Java, Go, JavaScript/TypeScript, HTML, CSS, L<sup>A</sup>T<sub>E</sub>X
- **Frameworks/Tools** - React, Svelte, FastAPI/Flask, Express, TailwindCSS, Git/Github, Postman, Docker