

Ardalan Askarian

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EDUCATION

University of Saskatchewan

Sep. 2025 – Present

Master of Science, Computer Science – Applied Machine Learning

- Research focus: Computer Vision and Image Processing under Dr. Mark Eramian

University of Saskatchewan

Sep. 2020 – Apr. 2025

Bachelor of Science Honours, Computer Science – Software Engineering Option

- Graduated with 86% overall average

SKILLS

Programming Languages: Python, JavaScript, TypeScript, C, Java, SQL, PHP, HTML/CSS, C#, R

Frameworks & Technologies: React, React Native, Node.js, Next.js, Django, Flask, Express.js

Databases: PostgreSQL, MySQL, MongoDB, SQLite

ML/Computer Vision: PyTorch, TensorFlow, OpenCV, Scikit-learn, SIFT, Image Segmentation

Tools: Git, Docker, Unix/Linux, Playwright, Unity, VS Code

EXPERIENCE

Software Developer

Oct. 2025 – Present

Omnee Technologies Corp.

- Develop AI-powered voice agents and conversational systems for innovative technology solutions.
- Collaborate with the engineering team on full-stack development and system integration.

Software Engineer

Sep. 2025 – Present

Wellman Medical Group

- Design and develop AI agents capable of bidirectional conversation for medical interviews, integrated with MedGemma.
- Build patient archiving and communications software for echocardiography data (EchoWell system).
- Implement healthcare-specific AI solutions ensuring data security and compliance.

Software Developer Intern

Oct. 2024 – Sep. 2025

BEAP Lab

- Led the design and development of full-stack systems for the BEAP Engine, enabling large-scale smartwatch data processing and analytics.
- Redesigned client-side web interface using React.js and TypeScript for improved user experience.
- Implemented machine learning algorithms to enhance speed and efficiency in parsing smartwatch data.

Undergraduate Summer Research Assistant (USRA)

May 2025 – Aug. 2025

University of Saskatchewan, Imaging & AI Lab

- Conducted research on SIFT-assisted image annotation systems under Dr. Mark Eramian.
- Developed a Django-based annotation platform combining Scale-Invariant Feature Transform (SIFT) with human oversight.

- Conducted user study with 6 participants, analyzing 36,407 interaction events to quantify AI suggestion impact.
- Co-authored research poster on human-AI collaboration in annotation workflows.

Teaching Assistant

Jan. 2023 – Present

University of Saskatchewan, Department of Computer Science

- Currently serving as Marking Assistant for CMPT 332 (Operating Systems Concepts), evaluating student work on OS principles.
- Delivered instruction and mentorship to 100+ undergraduate students across six core CS courses.
- Provided detailed feedback on assignments and exams to enhance student learning and programming skills.

PROJECTS

Sports Scheduling App – CMPT 370 (Intermediate Software Engineering)

- Led front-end development for a team sport management app focusing on streamlined UX and reduced feature bloat.
- Implemented using React Native, TypeScript, PostgreSQL, SQLite, and MongoDB with Agile/Scrum methodology.

RESEARCH

Enhancing Annotation Consistency and Efficiency: A Study of SIFT-Assisted Image Annotation in Computer Vision

Ardalan Askarian, Arash Sajjadi, Dr. Mark Eramian – University of Saskatchewan

- Evaluated Django-based annotation platform combining SIFT boxes with human oversight vs. manual baseline.
- Key finding: AI assistance increased annotation time by 71.6% without improving IoU or GTC quality metrics.
- Distilled design lessons for productive human-AI collaboration in future annotation systems.

ACCOMPLISHMENTS

- **NSERC Undergraduate Student Research Award (USRA)** – Summer 2025 research in computer vision
- **TESL Saskatchewan Student Bursary** – 2022, selected as one of two recipients province-wide
- **English for Academic Purposes Scholarship** – 2020, \$2,500 awarded as highest achiever in EAP program

REFERENCES

Dr. Mark Eramian – Professor, Department of Computer Science, University of Saskatchewan

Email: eramian@cs.usask.ca

Dr. Madison Klarkowski – Professor, School of Computer Science, QUT, Brisbane, Australia

Email: m.klarkowski@qut.edu.au