Sari Pagurek van Mossel

saripagurek.com | sari.pvm@gmail.com | 613-413-3304 | github.com/saripagurek | linkedin.com/in/sari-pagurek-van-mossel-49772429b

EDUCATION

• Queen's University Bachelors of Computing Honours with Minor in Film and Media (Expected Graduation 04/25)

Achieved Faculty of Arts and Sciences Dean's Honours List

 Achieved Faculty of Arts and Sciences Dean's Honours List 		
PROFESSIONAL EXPERIENCE		SKILLS
Software Development Engineer Intern, Amazon	June - Sept	Languages and
Designed and implemented new full stack features to existing labour scheduling software within	2024	Frameworks:
the Amazon Fulfillment Technologies organization, utilizing React.js and Java with Spring MVC		HTML, CSS, Python,
 Utilized AWS tools including Kinesis and DynamoDB in the design and creation of back-end APIs 		JavaScript, Java,
Conducted testing and applied software engineering principles to ensure code quality including		Bash Shell Scripting,
code reviews, agile development, and technical documentation		C, C#, React.js,
Software Developer, Queen's Visual Cognition Lab (with Dr. Castelhano)	May - Dec	Processing,
 Developed research and data analysis software for cognition studies alongside psychology 	2023	SpringMVC, LaTex
graduate students and professors		
Created and maintained Virtual Reality simulations using Unity and C# to collect and calculate		Software and Tools:
fixation and saccadic movement data (precise eye movement metrics) for perception research		Figma, Adobe
Applied linear algebra concepts to transform 3D coordinate spaces and measure angles Only the province to the province t		Creative Suite,
 Designed and developed analysis software in Python using techniques including Hidden Markov Modelling, Switch-Point Analysis, and data processing with other Machine Learning libraries and 		Xcode, Github, Unity, Cinema4D
open-source computer vision software		Ciliellia4D
Implemented analysis and calculation techniques from state-of-the-art research papers by		
collaborating professors		
UX Design Intern, Goodself Co.	May 2022 -	AWARDS
Held a lead responsibility in creating and updating app UI design features, prototypes, and user	Aug 2023	Creative Computing
flows in Figma		Showcase at Queen's
 Spearheaded the designing of 3 major app features, communicating effectively with both 		University Best Art
product and development teams		Project (2023)
Efficiently conducted quality assurance testing using Github pull requests, bash shell scripting,		HackHer (Queen's
and Xcode simulator		University
EXTRACURRICULAR & LEADERSHIP		Hackathon) First
Innovation Design Team Member, QMind	Sept 2024 -	Place Category
Collaborating on an undergraduate machine learning research paper to experiment with Gen Al	Continuing	Winner in Food
and GANs (Generative Adversarial Networks) for super resolution photo reconstruction		Insecurity & Social
Teaching Assistant, Queen's University School of Computing	Sept 2024 -	Good (2023)
 Assisting students during office hours and marking programming related topics for third year 	Continuing	Queen's University
computing courses	N4 2024	Principal's
Vice Chair of HackHer, Queen's University Women In Computing	May 2024 -	Scholarship for
Coordinating the organization of the 2025 HackHer Hackathon, leading a team of 5 to carry out	Continuing	Academic Excellence
outreach and logistical planning	April 2023 -	(2021)
Web Designer, Queen's Computing Students Association • Designed and prototyped 3 user friendly websites using Figma to direct user traffic, maintain	April 2024	OCDSB Silver Medal
design style, and strengthen brand identity		given to averages of
Development Team Lead and User Experience Designer, Canadian Youth for Youth Empowerment	Jan - April	90+ (2019-2021)
Managed and collaborated with a team of 5 developers to create a mental health based online	2023	Ontario Scholar
platform using React.js		Award (2021)
Web Developer, Queen's University Women In Computing	April 2022-	
 Created mobile friendly pages and implemented new features to the organization's website 	April 2024	Lisgar Collegiate
using HTML, CSS, and JavaScript		Institute Michael
PROJECTS		Rust-Smith Memorial Award for
3D to 2D: Using Image Segmentation to Automate Rotoscoping	2024	Excellence in Arts
Using a U-Net Convolutional Neural Network structure to process live footage frame-by-frame		and Science (2021)
to simplify the subject into 3 discrete shades as well as separate it from the background in an		
effort to create a base rotoscoped animated sequence		Lisgar Collegiate
Heatmap Display for Eye Tracking Data: <u>View on Github</u>	2023	Institute Award for
 Implemented OpenCV and other Python libraries to calculate frame by frame coordinates and 		Excellence in Visual
generate a heatmap visualization from given eye movement fixation and saccade data	2022	Art (2021)
Predicate Logic Calculator: <u>View on Github</u>	2022	
Developed a recursive Python algorithm to parse and evaluate a given predicate logic		
expression and return a completed truth table, interfacing the program with Peact is using		

expression and return a completed truth table, interfacing the program with React.js using

brython (a JavaScript based Python interpreter)