Sari Pagurek van Mossel

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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 | 11011 04/23) | |
|---|---------------------------|---|
| PROFESSIONAL EXPERIENCE | | SKILLS |
| Software Development Engineer Intern, Amazon Designed and implemented new full stack features to existing labour scheduling software within the Amazon Fulfillment Technologies organization, utilizing React.js and Java with Spring MVC Utilized AWS tools including Kinesis and DynamoDB in the design and creation of back-end APIs Conducted testing and applied software engineering principles to ensure code quality including | June - Sept 2024 | Languages and Frameworks: HTML, CSS, Python, JavaScript, Java, Bash Shell Scripting, |
| code reviews, agile development, and technical documentation | | C, 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 graduate students and professors | 2023 | SpringMVC, LaTex |
| Created and maintained Virtual Reality simulations using Unity and C# to collect and calculate fixation and saccadic movement data (precise eye movement metrics) for perception research Applied linear algebra concepts to transform 3D coordinate spaces and measure angles 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 open-source computer vision software Implemented analysis and calculation techniques from state-of-the-art research papers by | | Software and Tools: Figma, Adobe Creative Suite, Xcode, Github, Unity, Cinema4D |
| collaborating professors | | |
| UX Design Intern, Goodself Co. Held a lead responsibility in creating and updating app UI design features, prototypes, and user flows in Figma Spearheaded the designing of 3 major app features, communicating effectively with both product and development teams Efficiently conducted quality assurance testing using Github pull requests, bash shell scripting, | May 2022 - Aug 2023 | AWARDS Creative Computing Showcase at Queen's University Best Art Project (2023) 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 AI and GANs (Generative Adversarial Networks) for super resolution photo reconstruction | Continuing | Winner in Food Insecurity & Social |
| Teaching Assistant, Queen's University School of Computing Assisting students during office hours and marking programming related topics for third year computing courses | Sept 2024 - Continuing | Good (2023) Queen's University |
| Vice Chair of HackHer, Queen's University Women In Computing | May 2024 - | Principal's Scholarship for |
| Coordinating the organization of the 2025 HackHer Hackathon, leading a team of 5 to carry out outreach and logistical planning | Continuing | Academic Excellence (2021) |
| Web Designer, Queen's Computing Students Association | April 2023 - | |
| Designed and prototyped 3 user friendly websites using Figma to direct user traffic, maintain design style, and strengthen brand identity | April 2024 | OCDSB Silver Medal given to averages of |
| Development Team Lead and User Experience Designer, Canadian Youth for Youth Empowerment Managed and collaborated with a team of 5 developers to create a mental health based online platform using React.js | Jan - April 2023 | 90+ (2019-2021) Ontario Scholar Award (2021) |
| Web Developer, Queen's University Women In Computing • Created mobile friendly pages and implemented new features to the organization's website | April 2022- April 2024 | Lisgar Collegiate |
| using HTML, CSS, and JavaScript | · | Institute Michael Rust-Smith |
| PROJECTS | 2024 | Memorial Award for |
| Using Image Segmentation to Automate Rotoscoping: View on Github Using a U-Net Convolutional Neural Network structure to process live footage frame-by-frame to simplify the subject into 3 discrete chades as well as congrete it from the background in an | 2024 | Excellence in Arts 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: View on Github | 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: View on Github | 2022 | |
| Developed a recursive Python algorithm to parse and evaluate a given predicate logic avanagion and return a completed truth to be interfecing the program with Boost is using | | |

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

brython (a JavaScript based Python interpreter)