CAROLINE BERGER

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PROFESSIONAL EXPERIENCE

User Experience & Software Engineering Research Assistant

McGill University Health Center Research Institute, Montreal, Canada
September 2020 - Present
Developing an application for acute pain management for older adults who have sustained a skeletal fracture. Contributing to human-centered design process and preliminary software development of mobile health application.

User Experience Research Assistant (Internship)

Tech3Lab, HEC, University of Montreal, Canada
May 2020 - August 2020
Developed a two part study for at-distance biometric data collection. Moderated 12 at-distance participant studies in French and English. Performed pain point analysis of biometric data (facial expressions & electrodermal activity). Wrote 7 scripts in psychology-based experimental software. Developed data cleaning and processing script in python for the successful preliminary analysis and organization of over 600 participant responses. Performed a literature review on recommendation system design. Presented preliminary results on recommendation system design study at a lab research day, and submitted a manuscript for publication.

Technical Consultant

Thinkmax, Montreal
August 2019 - May 2020
Technical consultant for Microsoft Dynamics 365, an Enterprise Resource Planning product. Developed finance and operations solutions in a Microsoft Object Oriented language and retail solution in C#/.NET for clients in construction and fashion industries. Involved in design sessions to provide technical insight to business processes.

Software Engineering Research Assistant

Software Evolution Research Group, McGill University, Montreal
Summer 2017
Recipient of a Science Undergraduate Research Award to participate in full-time research. Developed an Eclipse plugin aimed at helping children learn to program. Conducted usability tests with children in Montreal.

EDUCATION

MCGILL UNIVERSITY, Montreal, QC
Bachelor of Science, 2015 - 2019
Major in Computer Science, Minor in Italian Studies
Exchange at the University of Bologna in Italy (Spring 2018)

Select courses:

Human-Computer Interaction (Masters level course) | Software Design
Mobile Applications Laboratory | Web-Related Technologies
Probability | Algorithms I & II | Software Systems
Teaching Computer Science | Integrating EdTech in Classrooms

SKILLS

JS: Node | Angular | Ionic | React
WEB: CSS | HTML
MOBILE: iOS | Android
SOFTWARE: Python | Java | C#| .NET
 SQL | C | C++
TOOLS: Qualtrics | Lookback | Figma
Power BI | TFS | Git | UML

ENGLISH: Fluent (C2)
ITALIAN: Professional (C1)
FRENCH: Conversational (B2)

SELECTED PROJECTS

Slack Notification System

User-centered design project aimed to enhance message notifications. Project includes audience segmentation, prototyping, and iterative testing.