

# Ehsan Jahangirzadeh Soure

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## Education

### University of Waterloo

[Waterloo, Canada](#)

MASTER OF MATHEMATICS (MMATH) IN COMPUTER SCIENCE GPA: 95% SUPERVISOR: DR. JIAN ZHAO

[Jan 2021 - Present](#)

- Focusing on Human-Computer Interaction and Information Visualization.

### University of Tehran

[Tehran, Iran](#)

BACHELOR OF SCIENCE IN ELECTRICAL AND COMPUTER ENGINEERING GPA: 90%

[Sep 2015 - Jun 2020](#)

- Designed and implemented an algorithm to perform fault detection and auto correction of gate level circuits, and a graphical user interface to visualize the changes made by algorithm. 🏆 Best Undergraduate Project Award] 📺 [Video](#)

## Experience

### Graduate Researcher and Teaching Assistant

[Waterloo, Canada](#)

UNIVERSITY OF WATERLOO

[Jan 2021 - Present](#)

- Designed and implemented **CoUX**, a collaborative visual analytics tool with an iterative design process to support multiple UX evaluators with analyzing think-aloud usability test recordings. 📺 [Video](#) 📄 [Go to Code](#)
- Conducted qualitative studies (semi-structured interviews and questionnaires) to measure CoUX usefulness.
- Collected the user system logs and conducted a quantitative study to analyse the user behaviour patterns while using CoUX.
- Cumulated a publication: **Ehsan Jahangirzadeh Soure\***, Emily Kuang\*, Mingming Fan, Jian Zhao. CoUX: Collaborative Visual Analysis of Think-Aloud Usability Test Videos for Digital Interfaces. IEEE Transactions on Visualization and Computer Graphics (Proceedings of VIS'21), 2022 (In Press). 📄 [Read paper](#)
- Worked as marking TA in CS136 (Elementary Algorithm Design and Data Abstraction), and supervised teams in the CS449 (Human-Computer Interaction).

### Lead React Developer

[Tehran, Iran](#)

HAMRAVESH CO.

[Aug 2018 - Dec 2020](#)

- **Kubervis (Kubernetes Cluster Visualization Tool)**: Visualized Hamravesh's highly-complex Kubernetes infrastructure to help DevOps team examine the cluster state in detail. 📄 [Go to Website](#)
- **DC (Datacenter Network Link Status Visualizer)**: Designed and implemented a graph-based visualization of company's network to enable the monitoring of inter-datacenter connections. 📄 [Go to Website](#)
- **Udamus (Network Uptime Monitoring Solution)**: Built a solution to provide clients with information such as uptime, response time, and latency supported by an alerting system in case of downtime. 📄 [Go to Website](#)

## Projects

### recoMovie

[Remote, Canada](#)

TORONTO HUMAN-AI INTERACTION SUMMER RESEARCH SCHOOL, UNIVERSITY OF TORONTO 📄 [GO TO WEBSITE](#)

[Jun 2021 - Aug 2021](#)

- Improve Decision-Making Satisfaction in Overchoice Scenarios with Human-Empowered Nudges.
- Built a Human centered Explainable Artificial Intelligence(XAI) interface for a movie recommender project. The recommender is developed similar to Akinator, and various interactive visualizations are used to make the blackbox model explainable.

### Kirin

[Waterloo, Canada](#)

CS889 INFORMATION VISUALIZATION 📄 [VIDEO](#)

[Spring 2021](#)

- An Interactive Visualization for Decentralized Finance Applications in Ethereum Blockchain.
- Visualized various metrics for DeFi protocols over a time period to help users find insights in the blockchain data.

### Prompter

[Waterloo, Canada](#)

CS 889: MASTERCLASS IN HUMAN-COMPUTER INTERACTION - EDUCATION TECHNOLOGY 📄 [GO TO CODE](#)

[Winter 2021](#)

- Fostering Creative Story Writing Through Personalized Question-Asking Agents.
- Made a text editor empowered with NLP to help writers when they face writers block by asking questions about characters in the story.

## Skills

**Languages** Proficient in C/C++ and Python. Familiar with many other languages.

**Web App Dev** Comfortable with JavaScript, Webpack, Node.js, Next.js, Socket.IO, HTML5, and CSS/SASS.

**Libs and Frameworks** React, Redux, Three.js, Tailwind CSS, Electron.js, Puppeteer, Slate, ReactPlayer

**Visualization** D3.js, Tableau, Pts.js, Chart.js

\* indicates equal contribution.