



# Malek Tavous

**SOCIAL WORK GRADUATE STUDENT**



Graduate student in the Master of Clinical Social Work program at the University of Washington with over a decade of professional experience in collaborative and interdisciplinary environments. Transitioning from a career in technology to social work motivated by a commitment to community wellbeing, healing, and equitable access to support services. Strengths include active listening, relationship-building, mentoring, documentation, and thoughtful problem-solving.



**3617 NE 50<sup>th</sup> St. Seattle WA 98105**



**425-753-0056**



**m.e.alian@gmail.com**

## EXPERIENCE

**Senior Software Engineer** *Microsoft* *2013-2025*

- Collaborated with multidisciplinary teams of engineers, researchers, and designers to plan and implement complex projects
- Mentored new team members and supported peer learning and onboarding
- Created documentation and learning materials to make complex systems understandable and accessible
- Analyzed complex problems and developed practical solutions under time constraints
- Maintained strong standards of responsibility, reliability, and confidentiality in professional work

**Software Developer** *Radialpoint* *2012-2013*

- Developed software tools to support remote assistance and improve user support systems
- Collaborated with distributed teams to identify and resolve client issues

**Technical Writer** *Autodesk* *2010-2011*

- Produced technical documentation and tutorials to make complex software accessible to diverse users

**Help Desk Analyst** *IBM Canada* *2006-2008*

- Provided technical assistance to clients and staff requiring patience, problem-solving, and clear communication

## EDUCATION

**Master of Clinical Social Work**

University of Washington, 2025 - Current

**PhD, Electrical and Computer Engineering**

Concordia University, 2013

**MSc, Computer Engineering**

Sharif University of Technology, 2004

**BSc, Computer Engineering**

Shahid Beheshti University, 2001

## SKILLS

- Active listening and supportive communication
- Professional documentation and information organization
- Mentoring and facilitating learning for individuals and small groups
- Interdisciplinary collaboration
- Research, assessment, and data tracking
- Problem-solving in complex situations
- Confidentiality and ethical responsibility

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## TEACHING EXPERIENCE

**Teaching Assistant:** Concordia University (2009-2011)

- Tutor for COEN352: Data Structures and Algorithms.
- Tutor for COEN390: Engineering Project Design.

**Teaching Assistant:** Sharif University of Technology (2001-2002)

- Tutor for Computer Architecture course at Computer Engineering department.
- Tutor for Microprocessor course at Computer Engineering department.

## ACADEMIC EXPERIENCE

**Research Assistant:** Concordia University (2006-2013)

- Researched developmental evolutionary systems. Proposed new methods to develop patterns of known functionalities or forms, applied to form gray-scale images from simple initial configurations.
- Surveyed DNA Computing. Proposed a method of using synthesized DNA strings for associative memories.

**Research Assistant:** Sharif University of Technology (2002-2004)

- Constructed a Pool Player Robot with learning abilities ([http://youtu.be/J70p-dCfi\\_s](http://youtu.be/J70p-dCfi_s))
- Identified the required hardware and protocols for the electronic part of a remote operated underwater vehicle

## PUBLICATIONS

- N. Kharm, M. Ebne-Alian (Malek Tavous), L. Charbonneau, "Evolution of Programs for Segmentation of Microscopic Images", 2015 12th Conf. on Computer and Robot Vision (CRV), Halifax, NS, Canada, 2015, pp. 253 -260.
- M. Ebne-Alian (Malek Tavous) "On Developmental Formation of Patterns". PhD Thesis, Electrical and Computer Engineering Department, Concordia University, 2013
- N. Kharm et. al. "Evolution of Image Segmentation Programs for Automated Processing of Microscopic Images of Cells in Culture". Submitted to IEEE Transactions on Biomedical Engineering
- M. Ebne-Alian (Malek Tavous) and N. Kharm "A new method to find developmental descriptions for digital circuits. " Evolvable Systems: From Biology to Hardware (2010): 73-84.
- M. Ebne-Alian (Malek Tavous), S. Bagheri, C. Lucas, "Evolving Strategies for a Pool Player Robot", WSEAS Transactions on Information Science and Applications, Issue 5, Volume 1, pp 1435-1440, November 2004
- M. Ebne-Alian (Malek Tavous), S. Bagheri, "A Fuzzy Pool Player Robot With Learning Ability" WSEAS Transaction on Electronics, Issue 2, Volume 1, pp 422-426, April 2004
- M. Ebne-Alian (Malek Tavous), et al. "Roboshark: a gantry pool playing robot". 35th International Symposium on Robotics (ISR 2004), Paris, France, 2004.
- A. Ramazani, S. Mousavi, R. Motafaregheh, M. Ebne-Alian (Malek Tavous), "Effect of Nd:YAG Laser Radiation on the Surface Properties of Polycarbonate Films", Polymer Processing Society Annual Meeting and 20th Anniversary, Ohio, USA, 2004.
- M. Ebne-Alian (Malek Tavous) "Design and construction of a pool player robot" MSc thesis, Computer Department, Sharif University of Technology, 2004