MAX SMILEY

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EDUCATION

Tufts University Medford MA
Bachelor of Science Degree, 2014 Magna Cum Laude, Highest Honors in Thesis
Computer Science, Cognitive and Brain Sciences

University of Washington Seattle WA
Master of Science Degree, 2019 Current GPA 3.95
Computer Science and Engineering

RELEVANT COURSEWORK

Computer Science Algorithms, Computation Theory, Discrete Mathematics, Machine Structures and Assembly-Language Programming, Machine Learning, Data Mining, Artificial Intelligence, Programming Languages, Parralel Computation, Web Programming, Web Engineering, Human Computer Interaction

EXPERIENCE

Microsoft Redmond WA, September 2014-Present
Software Engineer II

Worked in Supply Chain Services, creating cloud-based solutions ranging from APIs and websites to manufacturing software for shopfloor controllers and applied machine learning.
Working in Universal Store Team developing software for manual review to detect fraud and inform machine learners for risk evaluation.

Tufts University Dept of Computer Science Medford MA, August 2010-Present
Research Assistant

Worked with Professor Michael Levin, Director of Tufts Center for Regenerative and Developmental Biology; and Professor Matthias Scheutz, Director of Tufts Human Robotic Interaction Lab. Studied computational modeling and analysis of biomechanics in organic tissue regeneration. Published papers relating to agent-based simulation models of planarean morphegenics and of tree frog mating. Programmed an interface for general agent-based simulations for Tufts research. Was teaching assistant for special topics course Artifical Agents and Autonomy. I continue to help with research and implementation.

PUBLICATIONS

Scheutz, M., Smiley, M., & Boyd S. K. (2013, April 15). *Exploring Male Spatial Placement Strategies in a Biologically Plausible Mating Task. IEEE Symposium on Artificial Life*, Grand Copthorne Waterfront Hotel, Singapore.

Smiley, M. (2014, May). *Computational models of distributed morphological representations and regenation for damaged structures*, Tufts University (Senior Thesis with Highest Honors; embargoed for future research)

Ferrira G., Smiley M., Scheutz M., & Levin M. (2016, July 4). *Dynamic Structure Discovery and Monitoring for Self-Healing 3D Forms.* ALIFE XV 2016, *Cancun Mexico.*

HONORS

Outstanding Undergraduate Researcher Award Honorable Mention Computing Research Association, 2013
Winner of Tufts Coding Challenge Microsoft, November 2013
High Potential Employee Microsoft, 2014, 2015, 2016

OTHER ACTIVITIES & PERSONAL PROJECTS

Hackathon Multiple Venues, 2013-Present
Participant

Tufts University 2013: Created a website called Braid that used EchoNest API to fuse any two songs in a melodic manner.
Tufts University 2014: Won 2nd place in Tuft's Utility category for creating a website for auditing and planning majors.
Microsoft 2015: Built cross-platform mobile app using Xamarin that provided dashboard for MS supply chain orders.

Mythos, Online Board Game 2014-Present
Developer & Lead Visual Designer

Working with group of friends to create an online card game. Implemented in React framework. Head of design for interface, card design, and artwork. Online and still in development at *mythosgame.com*.

Robotics Club Tufts University, Medford MA, May 2012-2014
Vice President

Lead weekly meetings, taught coding tutorials for club members, managed website and GitHub repository. Managed coding department for club's competitions. Ran monthly workshop with local elementary school students to teach basic robotics concepts.

SKILLS & INTEREST

Computer Skills C++, C, C#, Java, JavaScript, Arduino, Processing, Scheme, SML, HTML, CSS, React, Azure
Interests Autonomy, Artificial Intelligence, Illustration and Design, Computational Biology