

MAX SMILEY

1310 East Thomas Street, Unit 204, Seattle WA 98102 | 858.603.6238 | maxgsmiley@gmail.com

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, Parallel 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.

Full stack development in Universal Store Team building apps and services for manual review to detect fraud and inform machine learners for risk evaluation and credit review. Work directly with customers to develop fully featured front end interfaces. Design and implement backend services used by fraud agents across the globe every minute. Responsible for mentoring and onboarding FTEs and interns. Lead small team in building new service portal for provisioning credit to customers.

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 planarian morphogenesis and of tree frog mating. Programmed an interface for general agent-based simulations for Tufts research. Was teaching assistant for special topics course Artificial 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 regeneration 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, 2017

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.

Microsoft 2016:

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.

SKILLS & INTEREST

Computer Skills C++, C, C#, Java, JavaScript, Python, Arduino, Scheme, SML, HTML, CSS, Angular, React, Azure

Interests Autonomy, Artificial Intelligence, Illustration and Design, Computational Biology