

# Pooya Moradi

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<b>EDUCATION</b>	<b>Simon Fraser University</b> , Canada <i>Master of Science in Computer Science</i> GPA 4/4	Sep 2018 - Jun 2020
	<b>University of Tehran</b> , Iran <i>Bachelor of Science in Computer Engineering</i> GPA 17.5/20	Sep 2012 - Sep 2016
<b>RESEARCH EXPERIENCES</b>	<b>NatLang Lab</b> , Simon Fraser University <i>Graduate Research Assistant</i> - <b>Thesis:</b> <i>Training with Adversaries to Improve Faithfulness of Attention in Neural Machine Translation</i> - Worked on interpretability of attention mechanism in sequence-to-sequence models.	Sep 2018 - Sep 2020
	<b>IIS Lab</b> , University of Tehran <i>Undergraduate Research Assistant</i> - Worked on predicting user engagement in social media via multi-task learning.	2014 - 2015
<b>PUBLICATIONS</b>	- <b>P. Moradi</b> , N. Kambhatla, and A. Sarkar. <i>Confidential</i> . Submitted to AACL 2020. - <b>P. Moradi</b> , N. Kambhatla, and A. Sarkar. <i>Interrogating the Explanatory Power of Attention in Neural Machine Translation</i> . EMNLP 2019 Workshops(WNGT). - H. Zamani, <b>P. Moradi</b> , and A. Shakeri. <i>Adaptive User Engagement Evaluation via Multi-task Learning</i> . SIGIR 2015. - H. Zamani, A. Shakeri, <b>P. Moradi</b> . <i>Regression and Learning to Rank Aggregation for User Engagement Evaluation</i> . ACM RecSys Workshops 2014.	
<b>WORK EXPERIENCES</b>	<b>Microsoft</b> <i>Applied Research Scientist Intern</i> Large scale image super-resolution. - Did literature review on deep learning based image super-resolution. - Training large-scale Transformer-based models for super-resolution on Bing images. - Proposed various methods to increase PSNR in Transformer-based models for super-resolution.	Mar 2020 - May 2020
	<b>Resid</b> <i>Software Engineer</i> The first P2P mobile payment app in Iran - Designed APIs to provide a mobile wallet for P2P payments. - Migrated a on-production codebase and db schema to a new model with near-zero downtime. - Was responsible for handling tickets/bugs issued by the support team. - Became an interviewer for Software Engineer position.	Sep 2017 - Sep 2018
	<b>Divar</b> <i>Software Engineer</i> Biggest classified advertising service in Iran with more than 10M queries per day. - Extracted search core from a giant monolithic codebase and moved it to a new Dockerized Microservice-based environment and finally on Kubernetes. - Implemented semantic analysis microservices specialized for Persian language to extract semantic attributes from ads and search queries. Increased recall by 7%. - Analyzed 500M action logs via Spark to come up with solutions enhancing OKR metrics. - Implemented various microservices in a RabbitMQ-based environment to fetch ads, repopulate, index and query the Elasticsearch database. - Was responsible for code review, maintenance and DevOps of the search stack.	Mar 2016 - Sep 2017
	<b>Taskulu</b> <i>Software Engineer</i> Task management platform. - Designed and implemented various APIs for the Backbone.js frontend. - Wrote various unit and integration tests for APIs.	Sep 2013 - Sep 2014
<b>PROJECTS</b>	- <b>Future Sales Prediction:</b> Used collaborative filtering, XGBoost and CNNs to predict future sales of a market (2019). <i>scikit-learn, pandas</i> - <b>An improved attention model for simultaneous machine translation</b> (2018). <i>DyNet</i> - <b>Attentive Image Colorization</b> via attention-augmented cyclic GAN (2018). <i>Tensorflow</i> - A compiler (syntax & semantic analyzer and code generator) for a language (2015). <i>Java</i> - <b>Linux Kernel Scheduler:</b> a multi policy process scheduler for the Linux kernel (2015). <i>C</i>	
<b>TECHNOLOGIES</b>	- C++, Ruby, and Python (> 10K lines); Java(> 1K lines). - (Django; Ruby on Rails) - (Postgresql; Elasticsearch; Redis; RabbitMQ) - (Docker; Kubernetes) - (Scikit-Learn; PyTorch) - Git.	
<b>HONORS &amp; AWARDS</b>	- Was awarded <b>Graduate Fellowship</b> for my MSc (2018). - <b>Honored Alumni</b> of my BSc (2016). - <b>Ranked 5th</b> out of 36 teams in ACM RecSys Challenge (2014).	