

MARIAM DOLIAHVILI

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Curriculum Vitae

EDUCATION

University of Hawaii, Manoa

Ph.D. in Computer Science . GPA: 3.7 / 4.0

August 2015 - present

University of Hawaii, Manoa

M.S. in Computer Science focusing on Machine Learning . GPA: 3.7 / 4.0

December 2017

Ivane Javakhishvili Tbilisi State University

Bachelor of Science in Computer Science . GPA: 3.9 / 4.0

July 2015

WORK EXPERIENCE

Facebook

Software Engineering Intern (ML)

September - December 2018

Menlo Park, CA, USA

- Scoring search query interpretations

DeepMind

Research Engineering Intern

April - August 2018

Mountain View, CA, USA

- Worked on Population Based Training for Neural Networks.

Google

Software Engineering Intern

May - August 2017

Mountain View, CA, USA

- Predicting probabilities for a multi-class problem using various machine learning models with C++ / Tensorflow / Python.
- Team: Knowledge Graph

Google

Software Engineering Intern

June - September 2016

Zurich, Switzerland

- Trained an LSTM neural network on a query stream, using Tensorflow / Python.
- Team: Geo Growth and Analytics

JSC. Georgian Card

Software Developer

March - July 2012

Tbilisi, Georgia

- Developing software for e-banking and ATMs using Java, PL/SQL.

TEACHING EXPERIENCE

University of Hawaii

Graduate Assistant

August 2015 - July 2018

Honolulu, HI, USA

- ICS 311: Algorithms . ICS 211: Data Structures
- ICS 321: Data Storage & Retrieval . ICS 241: Discrete Mathematics ...

ACCOMPLISHMENTS AND AWARDS

Twitter Fellowship	2019
Winner of the Geostat and "UN Women" Data Visualization Hackathon	2019
Speaker at United Nations Assembly (Tbilisi, Georgia)	2019
Top 150 finish on Google Code Jam with invitation to Google I/O	2018, 2019
Women Techmakers scholarship for TensorFlow Developer Conference	2018
Facebook WIRL scholarship	2018
Google scholarship for Grace Hopper Celebration	2016
Honorable mention at ACM ICPC Pacific Northwest Regional Contest	2015
Georgian presidential scholarship for high ranked students	2011, 2012, 2013, 2014
Honorable mention at ACM ICPC Northeastern European Regional Contest	2012, 2013, 2014
III Diploma at Southern Caucasus Programming Championship	2012, 2013
Finalist of Geolymp Programming Competition	2013
Speaker on The Georgian - German School and Workshop in Basic Sciences	2012
Third place at Tbilisi State University Calculus Competition	2011
Full bachelor's degree scholarship from georgian government for top 5% of students based on the National Examination Center results	2010

RESEARCH AND PROJECTS

Predicting Emoji Usage from Twitter Dataset for Emoji Recommender System

September 2017

Master's thesis . Supervisors: Lipyew Lim, David Chin

- Analysing and classifying emojis and related emotions from a Twitter dataset.
Building a recommender system with sentiment analysis and next-word prediction methods.
- Using Python, NLTK, Scikit, Keras, Tensorflow.

Implementation and Analysis of Parallel Algorithms (Merge Sort, Matrix Multiplication) in Various Environments

July 2015

Beachelor's thesis . Supervisor: Koba Gelashvili . Co-author: Sopio Chikvinidze

- Analysis of the parallel algorithms using different technologies
- Using C++ threads, pthreads, the "future" library, OpenMP, MPI.

Cubed Sphere Simulator 5th Georgian - German School and Workshop in Basic Science

August 2012

- Implementation of the cubed sphere simulator using Eulers explicit and implicit schemes, locally one-directional decomposition, classical Runge-Kutta method and fourth-order strong stability preserving schemes.

PROGRAMMING SKILLS

Languages and Libraries:	C/C++, Python, Java, TensorFlow, PyTorch, Keras MPI, OpenMP, QT, OpenGL.
Databases and Mobile Technologies:	Oracle, PL/SQL, JDBC, SQLite, Android.

VOLUNTEER WORK

University of Hawaii

2015 - 2018

- Coaching teams for ACM ICPC pacific northwest regional contest

Google Women Techmakers Georgia

Summer 2019

- Organizing Committee member for Women Techmakers Meetup.

Lean In - UH Tech

Spring 2018

- Founder and mentor: Organizing meetings and mentoring students for the Lean In group