Andrey Kurenkov

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SUMMARY

CS graduate student with engineering and research experience interested in AI, data science, and robotics.

Programming Languages: Python, Java, C, C++, R, MATLAB/Octave, LaTeX

Frameworks and Toolkits: Numpy, Scikit-learn, Pandas, ROS, Tensorflow, Docker

EDUCATION

Stanford University, Stanford CA — September 2017 – Present

- **M.S. in Computer Science** with focus in AI
- **GPA**: CS 3.87
- **Teaching**: Intro to AI (Python)

Georgia Institute of Technology, Atlanta GA — August 2011 – May 2015

- **Dual major**: B.S. in Electrical Engineering, B.S. in Computer Science with Research Option
- **GPA**: CS 4.0 , Overall 3.88
- **Teaching**: Intro to OOP (Java) 3 semesters, Intro to AI (Python) for 4 semesters
- **Awards**: Georgia Tech's President's Undergraduate Research Award, IEEE PES Scholarship Plus Recipient

GRE: quantitative 170/170 (98th percentile), verbal 168/170 (98th percentile)**,** writing 5.0/6.0 (93rd percentile)
MOOC: Udacity - Data Analyst Nanodegree, Coursera – Neural Networks, Machine Learning, Programming Languages

EXPERIENCE

Software Engineer*, Oracle***,** Santa Clara CA — June 2015 – July 2017

Worked on a small team to prototype and develop the first release of the Oracle Systems Manager for ZFSSA

- Completed a prototype for time-series data aggregation microservice with Python , Cassandra, Flask, and Docker.
- Owned design and implementation of REST and logic layers from start of project to beta release (1 year) using Java, Jetty, Jersey, JDBI. Lead on team in commits (612 – 12%), lines of code (11070 – 24%), and code reviews.
- Quantified and visualized scaling and reliability characteristics of beta release with IPython Notebook and Pandas.

Research Assistant*, Stanford Vision Lab***,** Stanford CA — January 2017 - Present

Contributed to development and evaluation of novel Deep Learning CV research, part of effort to improve robot learning

- Submitted to NIPS and CORL as first author, currently pursuing novel research in Deep Learning for robotics.
- Trained deep learning models with Tensorflow, wrote C++ ROS nodes, contributed to Python robotics software stack.

Research Assistant, *Socially Intelligent Machines Lab***,** Atlanta GA — August 2013 – May 2015

Assisted with and performed research at the Socially Intelligent Machines Lab with Curie, a humanoid robot

- Published as first author (IROS 2015); created ideas, wrote software, and ran a user study with a humanoid robot.
- Implemented ROS Java nodes for DMP, MoveIt, and marker usage. Improved C++ PCL object segmentation code.

Summer Research Intern*, École Polytechnique Fédérale de Lausanne*, Lausanne Switzerland — May 2014 – August 2014

Interned at the Microelectronic System Lab to model the lab's memristor technology using VerilogA

- Developed simulations in ADE-L and Matlab to evaluate memristor applications in logic calculation and machine learning.
- Designed a novel CMOS circuit implementation of an abstract neuron model, and evaluated its performance with ADE-L.

Robotics Institute Summer Scholars Research Intern, *Carnegie Mellon University*, Pittsburgh PA — June 2013 – August 2013

Interned at the Personal Robotics Lab with HERB, a humanoid robot, to incorporate past experience for better task execution

- Implemented a Python planning-based task execution framework with extensive data logging for smarter robot behavior.
- Researched, designed, and implemented a machine learning approach for error avoidance during task execution.

Software Lead, Electrical subteam member, Georgia Tech Solar Racing Car Team, Atlanta GA — August 2011 – May 2015

- Supervised and directed a group that developed high quality telemetry and control software with TI's C2000 Picollo chips.