Maksim Levental

Research Programmer

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Mission

Brooklyn based, mathematically skilled developer. Transitioning from academia to industry. Experience in Python, Java, MATLAB, SQL, Go. Interested in back-end, distributed, and data engineering.

Education

2015 **MS, Computer Science**, *GPA: 3.72*, University of Florida, Gainesville, FL, USA.

project: *Infrastructure development for TUF*

advisor: Joseph Wilson

coursework: Optimization (LP and NLP), Machine Learning, Mathematical Statistics, Stochastic Differential Equations

2010 **Bachelor of Science, Mathematics**, *GPA: 3.73*, Florida State University, Tallahssee, FL, USA.

coursework: Real Analysis, PDEs, Scientific Programming, Computational Physics

honors: Magna Cum Laude; Sigma Pi Sigma; Dean's List

Work experience

2014–present **Research Programmer**, *University of Florida*, Gainesville, FL.
I coordinate and develop the infrastructure for the TUF (Testing Unified Framework) system in the Computational Science and Intelligence Lab. The research mission of the lab is machine learning for purposes of landmine detection for military (Iraq and Afghanistan) and civilian interests (demining in Cambodia, Vietnam, Laos). I designed and implemented a Postgres Database backend for TUF, including a Java-MATLAB interface layer, and ported legacy database functionality (glorified hash table) to make use thereof. I also upgraded and migrated backend services, running on an obsolescent Ubuntu 10.04 server, to a robust, containered (VMs) system.

2011–2013 **Education Peace Corps Volunteer**, *PCUganda*, Mbale, Uganda.
Taught Physics and Mathematics at the O-level and A-level, equivalent to 11-12th grade and college freshmen. Maintained and repaired computers and equipment in the WorldBank donated computer lab. Connected local intranet to WorldBank donated on-campus Wifi hotspot by means of a Linksys Tomato flashed router. Designed experiments and learning aids for GirlTech, a summer camp for rural school girls. Specifically a demonstration of a Ruben's tube and water propulsion rockets. General IT and audio/visual (soundboard, projector, PA) maintenance during camp.

Technologies/Languages

Python, Flask, Java, Postgres, MATLAB, Go, LDAP, Apache, Mathematica, LaTeX

Honors and awards

2010 Pi Mu Epsilon

2009 Sigma Pi Sigma

2008 Southern Scholarship Foundation

2007 – 2010 Dean's list Florida State University

Selected talks

2015 *Stochastic Differential Equations and European Options Pricing*, Seminar, University of Florida, Gainesville, Florida

2014 *Quantum Computing and Shor's Algorithm*, Seminar, University of Florida, Gainesville, Florida

References

Joseph Wilson, jnw@cise.ufl.edu, (352) 514-2191

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Scott McKinley, smckinl3@tulane.edu, (504) 862-3426