

Erick Lin

elin42@gatech.edu • 3698 Lakeview Dr, Tucker, GA 30084 • (423)218-7907

Website: ericklin.github.io • **LinkedIn:** linkedin.com/in/elin42 • **Github:** github.com/ErickLin

OBJECTIVE

To obtain a Software Development Engineering internship in the summer of 2017

EDUCATION

Georgia Institute of Technology , Atlanta, GA	Aug 2014-
<ul style="list-style-type: none">Bachelor of Science in Computer Science, May 2018 (expected)Bachelor of Science in Mathematics, May 2018 (expected)	
Dobyns-Bennett High School , Kingsport, TN (graduated as a junior)	2011-2014

EXPERIENCE

Distributed Computing Group , Parasol Laboratory, Texas A&M University	May-Aug 2016
<ul style="list-style-type: none">Advised by Dr. Jennifer Welch and supported by \$6000 NSF stipendGave correct, fast data structure implementations in partially synchronous message-passing systems, proving their upper and lower boundsFirst-author publication in preparation – “Linearizable relaxations of stacks and their generalizations to ordered data structures”	
Robot Learning Lab , Georgia Tech Institute for Robotics and Intelligent Machines	Oct 2014-
<ul style="list-style-type: none">Advised by Dr. Byron BootsCharacterizing the quantum version of hidden Markov models (HMMs) for improved parameter estimationDeveloping a completely linear recurrent neural network architecture in Caffe for fast segment-based multiple object trackingRecipient of President's Undergraduate Research Salary Award (x2)	
LAMP Stack Internship , Cresca Group, Norcross, GA	May-Aug 2015
<ul style="list-style-type: none">Led development team to complete back-end of web application that processes and standardizes order information from various online sales channels and handles RESTful communications with their APIs	
Laboratory for Computational Neurodiagnostics , Stony Brook University, NY	Jun-Aug 2014
<ul style="list-style-type: none">Advised by Dr. Lilianne Mujica-Parodi and Dr. Jaime IdeDeveloped an engaging graphical pattern detection task and constructed Markov decision processes which successfully captured human decision making under conditions of ambiguity	

HONORS/AWARDS

Received offer for Amazon SDE Internship	Summer 2016
ConocoPhillips Innovation Challenge , Bartlesville, OK	Apr 2015
<ul style="list-style-type: none">3rd place for developing a wearable technologies-interfacing Android application that utilizes server push and REST-style alerts to notify workers of location when someone could be in critical condition1 of 16 students invited in total	
National Collegiate Research Conference , Harvard University, Cambridge, MA	Jan 2015
<ul style="list-style-type: none">Accepted for poster presentation – “Individual variability in pattern recognition and set shifting under the influence of ambiguity priming”	

- Simons Summer Research Program**, Stony Brook University, NY Jun-Aug 2014
- Considered one of the most competitive programs of its kind in the nation
 - Project selected as **semifinalist** in **Siemens Competition** and advanced to international level at **Intel International Science and Engineering Fair**
- National Advanced Placement Scholar, National Merit Finalist** 2014
- Governor's School for Computational Physics**, Clarksville, TN Jun 2013
- Employed high-precision equipment and numerical methods to approximate solutions to intractable problems in classical and modern physics

SKILLS

Sampling of Coursework:	Graduate: Machine Learning Theory, Advanced Operating Systems Undergraduate: Compiler Construction, Processor Design, Operating System Engineering, Honors Algorithms I & II, Quantum Computing and Quantum Information, Real Analysis, Abstract Algebra, Topology, Combinatorial Analysis, Thermodynamics
Programming:	Java, C++, C, Haskell, Octave/MATLAB, Javascript, MySQL, MIPS and x86 assembly, Bash/shell, Verilog, LaTeX, Fortran
OS/Software:	UNIX/Linux (Ubuntu, Arch), Git, Vim, Emacs, GDB, Gradle, Android Studio
Hardware:	Altera FPGAs

ACTIVITIES/LEADERSHIP

- President, ACM Programming Team** Aug 2016-
 - Member, **ACM Programming Team** Aug 2014-**Programming Competitions:**
- ACM-ICPC Southeast USA Regionals** – Top 14 in Division I Nov 2015
 - TopCoder** rating: Yellow (Div. 1, second highest rating level)
 - Codeforces** rating: Blue/Expert (Purple/Candidate Master under old system)
 - Zenhacks**, HackerRank (hosted by Zenefits) – placed 92/1173 Feb 2015
 - Algorithms with a Purpose**, ACM@CMU – placed 4/95 Oct 2014
 - USA Computing Olympiad** – qualified for Gold (highest) Division 2013-2014
- iTrans VIP**, Georgia Institute of Technology, Atlanta, GA Aug-Dec 2014
- Research team implementing self-organizing bus schedule on campus
 - Overhauled real-time bus transit map in Javascript, JQuery, and Leaflet
- Note Taker**, Office of Disability Services, Georgia Institute of Technology Aug 2014-
- Delivered complete lecture and recitation notes for MATH 2605 (Calculus III with Numerical Linear Algebra), MATH 2406 (Abstract Vector Spaces), MATH 2403 (Differential Equations), CS 4510 (Theory of Computation)
- Webmaster/Vice President, SABUR** (Undergraduate Research) Apr 2015-
- Website: sabur.gtorg.gatech.edu
- Webmaster, Runnin' Wreck** Aug 2014-
- Website: runninwreck.gtorg.gatech.edu
- Violist, GT Chamber Strings Orchestra** Jan 2016-
- Putnam Competition** score: 21