

Neil Guertin

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EDUCATION	Rochester Institute of Technology , Rochester, NY <i>September 2012 - May 2017</i> <i>Bachelor of Science, Computer Science and Computational Mathematics</i> College of Science Deans List x7 GPA 3.8				
SKILLS	Most Proficient	SQL	MIPS	Linux	Compilers
	MATLAB	Python	SML	Vimscript	gdb
	C++	Java	IDL	LaTeX	Perforce
	C	Bash	x86	Git	Linear Algebra
EXPERIENCE	Quality Engineer <i>July 2018 - Present</i> <i>MathWorks, MATLAB Language Analysis, Transformation, and Design</i> <i>Natick, MA</i> <ul style="list-style-type: none">· Searched for and reported bugs found in MATLAB language and syntax· Wrote tests and testing tools, including individual tests for bug fixes and complete suites with documentation for new features· Maintained existing legacy test bed, taking part in small and large, individual and company-wide, projects for updating tests to meet modern standards· Provided feedback on testability and usability of new features Application Support Engineer <i>June 2017 - June 2018</i> <i>MathWorks, Engineering Development Group</i> <i>Natick, MA</i> <ul style="list-style-type: none">· Provided technical support to users of MATLAB and its Toolboxes· Investigated and wrote articles for crash cases and taught other ASEs how to use the automated crash reporting and response system· Used previous experience with MATLAB Graphics to assist other ASEs on cases Software Engineer in Test Intern <i>June - December 2016</i> <i>MathWorks, Handle Graphics QE</i> <i>Natick, MA</i> <ul style="list-style-type: none">· Wrote testing tools for MATLAB Graphics including mixins and a comparator· Updated and improved a large collection of legacy tests Lab Programming Researcher <i>June - December 2015</i> <i>Center for Detectors (RIT)</i> <i>Rochester, NY</i> <ul style="list-style-type: none">· Assisted two faculty and two engineers on NASA and NSF funded research· Wrote IDL code to gather, reduce, analyze, plot, and simulate data· Improved temperature and pressure logging capabilities on four dewar systems Student Lab Instructor (TA) <i>September 2013 - May 2017</i> <i>RIT Computer Science Department</i> <i>Rochester, NY</i> <ul style="list-style-type: none">· Tutored students in class, in the mentoring center, and privately· Graded homeworks and labs using custom scripts				
PROJECTS	Parfor Test Rewrite and Expansion (MATLAB) <i>Fall 2018-Present</i> <ul style="list-style-type: none">· Updated and rewrote a large legacy test suite which had fallen into disrepair· Parameterized tests, abstracted out common functionality, and filled testing holes· Improved maintainability of the test suite by reducing total lines, applying consistent standards, and using modern tools· Improved quality of the product by finding bugs and increasing coverage GraphicsComparator (MATLAB) <i>Fall 2016</i> <ul style="list-style-type: none">· Built an extremely powerful and flexible comparator for graphics objects for use in testing save/load, copy/paste, and other related workflows· Responsible for all parts of project including design, documentation, and testing Logisim Grading Harness (Python, Bash) <i>Spring 2015</i> <ul style="list-style-type: none">· Created grading harness for the circuit simulation tool Logisim· Integrated into CS department's in house grading software try				