Neil Guertin Software Quality Engineer Software Engineer in Test neilguertin@neilguertin.com

EXPERIENCE	Collabora ProductivityRemoteSoftware Engineer in TestDec. 2023 - Jul. 2024
	 Supported development of a web application for collaborative document editing Performed all automated testing activities as the only test engineer in a small company Reduced testing time by 50%, increased reliability of tests, and improved failure diagnostics Created performance testing framework and systems for monitoring test failures
	MathWorksNatick, MAQuality Engineer MATLAB Language Front EndJun. 2018 - Jun. 2022
	 Wrote tests and testing tools for MATLAB language and syntax, including individual tests for bug fixes and complete suites with documentation for new features Maintained existing legacy test bed, and updated tests to meet modern standards through individual and company-wide projects Found and investigated bugs in MATLAB language and syntax Provided feedback on testability and usability of new features
	Application Support Engineer Engineering Development GroupJun. 2017 - Jun. 2018• Provided technical support to users of MATLABDocumented and shared solutions to assist with future cases• Improved automated crash reporting and response system
	Quality Engineer Intern MATLAB Graphics & ChartingJun. 2016 - Dec. 2016• Wrote testing tools for MATLAB charts including mixins and a comparator• Updated and improved a large collection of legacy tests
	Rochester Institute of TechnologyRochester, NYLab Programming Researcher Center for DetectorsJun. 2015 - Dec. 2015• Assisted faculty and engineers on NASA and NSF funded research• Wrote IDL code to gather, reduce, analyze, plot, and simulate data
	Student Lab Instructor (TA) Computer Science DepartmentSep. 2013 - May 2017• Graded homeworks and labs using custom scripts• Tutored students in class, in the mentoring center, and privately
EDUCATION	Rochester Institute of TechnologyRochester, NYBachelor of Science Computer Science & Computational Mathematics Sep. 2012 - May 2017• GPA 3.8, College of Science Deans List x7
SKILLS	C/C++ Java JavaScript/TypeScript Linux/Bash Jenkins/CI Compilers MATLAB Python Cypress/Mocha Git/GitHub Open Source Test Design
PROJECTS	 P-Code R2022a Format MathWorks Led testing activities for important multi-year project Wrote test plans, implemented tests, found and reported bugs Qualified and delivered betas to select customers Coordinated with other QEs on impacted downstream teams across the company
	 AST Test Data MathWorks Winter 2021 Wrote data set of MATLAB files representing all Abstract Syntax Tree nodes and cases Added tests for downstream clients of the AST, finding dozens of issues Saved development time for new language features while increasing confidence in quality
	Footsteps Personal2023 - Present• Full stack application for viewing running activity data built with Angular and Python• Focus on data visualization including maps, graphs, charts, and summaries