Neil Guertin
Software Quality Engineer
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EXPERIENCE

Collabora Productivity — Remote
Software Engineer in Test — Dec. 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

MathWorks — Natick, MA
Quality Engineer *MATLAB Language Front End* — Jun. 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 Group* — Jun. 2017 - Jun. 2018
- Provided technical support to users of MATLAB
- Documented and shared solutions to assist with future cases
- Improved automated crash reporting and response system

Quality Engineer Intern *MATLAB Graphics & Charting* — Jun. 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 Technology — Rochester, NY
Lab Programming Researcher *Center for Detectors* — Jun. 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 Department* — Sep. 2013 - May 2017
- Graded homeworks and labs using custom scripts
- Tutored students in class, in the mentoring center, and privately

EDUCATION

Rochester Institute of Technology — Rochester, NY
Bachelor 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/CD	Compilers
MATLAB	Python	Cypress/Mocha	Git/GitHub	Open Source	Test Design

PROJECTS

P-Code R2022a Format *MathWorks* — 2020 - 2022
- 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 *Personal* — 2023 - Present
- Full stack application for viewing running activity data built with Angular and Python
- Focus on data visualization including maps, graphs, charts, and summaries