

Henry J Schmale

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Work Experience

Deloitte Consulting

MECHANICSBURG, PA

Software Engineer in Test / Consultant

July 2019 – Present

Lead a test automation team of 10 resources to automate 12 suites across 8 interconnected products

Design and implement an AWS cloud based testing framework to enable parallel execution of test cases in Python using containers in AWS Fargate

Develop educational materials on automated testing methods and skill up new developers

Wrote end to end automated tests covering databases and web frontend using Selenium using a custom Java based test framework

Develop integration between enterprise systems for automatic reporting of test execution results via Jenkins

Debug test results and report defects to development teams

Implement docker containers in our testing environment while navigating client security policies

Maintain over 400 end to end tests executed weekly

Conklin Media

QUARRYVILLE, PA

Full Stack Developer

November 2018 – June 2019

Maintained WordPress sites and massively improve performance by 60% using caching

Developed custom domain ranking business intelligence tool with powerful SQL reporting back-end

Built text analysis tools using natural language processing techniques in Python and Javascript

Built custom tools and plugins using modern web technologies

Managed, monitored, and optimized hosted WordPress instances for customers

Millersville University of Pennsylvania

MILLERSVILLE, PA

Student Web Developer

September 2018 – December 2018

Built portlets integrated with LDAP service using Liferay

Extended existing applications to improve student life

Lab Consultant

September 2017 – December 2018

Supervised and supported of the computer science labs used by 200 undergrads

Assisted with replacement of 60 lab machines in Winter 2018

NIST-Gaithersburg

GAITHERSBURG, MD

Guest Researcher

May 2018 - August 2018

Summer Guest Researcher as part of the SURF program

Improved software engineering practices on a TDSE simulation program

Develop visualizations of physics simulation results using R, ggplot2 and ffmpeg for animations.

WildFig Data

HARRISBURG, PA

Software Developer Intern

September 2016 – February 2017

Built analytic dashboards using R and Shiny for analysis of Twitter and small business information

Education

Millersville University of Pennsylvania

MILLERSVILLE, PA

B.S. Computer Science, Cum laude

May 2019

Relevant clubs include Cyber Defense Organization and Coding Club

Independent Study: Modernizing our computer science grading and submission system to Bash

Independent Study: Adding OpenACC support to RAJA, a parallel programming abstraction framework in C++

Skills, Interests, and Other Activities

Programming Languages: C++, Python, Node.JS, Java, R, SQL, Bash

Selected Libraries and Tools: JUnit, Numpy, Selenium, Docker, Docker-Compose, Jenkins, Keras, ggplot2

Web Frameworks: Django, Node.JS Express, Flask, WordPress, Spring Boot

Databases: PostgreSQL, Oracle, SQLite, MySQL, Redis, DynamoDB, MongoDB

Current Clubs and Activities: PA Hackers, Central Pa Linux Users Group (CPLUG), Personal projects, Kaggle AI Competitions; Blogging on technical and non-technical topics

Awards and Certifications: Millersville University Dean's List 2017 – 2019; 1st Place PACISE Programming Contest 2019; 3rd Place PACISE Programming Contest 2018; 6th Place MACCDC Regionals 2018; 2nd Place Fall 2017 Bronze Division National Cyber League; 5th Place CyberSEED 2017 Application Development; Triplebyte Certified Generalist Programmer 2018,2020; Triplebyte Certified DevOps Engineer 2020