

Henry J Schmale

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Last update on August 1, 2024

Work Experience

Organon

PLYMOUTH MEETING, PA

Cloud Automation Engineer

October 2022 – Present

Define standards for our cloud environment across AWS, Azure, and GCP

Develop and maintain code quality and automated deployments using CI/CD best practices

Evaluate security products for deployment across the enterprise including CSPM, SAST and SCA tools

Cost optimization of AWS Spend among EC2 and DynamoDB

Implement controls and guardrails for various GenAI Providers including Amazon Bedrock and Github Copilot

Deloitte Consulting

MECHANICSBURG, PA

Software Engineer in Test / Consultant

July 2019 – September 2022

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

Design and implement a cloud testing framework for parallel execution of test cases in Python on AWS Fargate containers

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

Wrote end to end automated tests covering databases and frontend using Selenium using a custom Java 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.

Education

Millersville University of Pennsylvania

MILLERSVILLE, PA

B.S. Computer Science, Cum laude

May 2019

Skills, Interests, and Other Activities

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

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

Awards and Certifications: 6th Place MACCDC Regionals 2018; 2nd Place Fall 2017 Bronze Division National Cyber League; Featured on Hackaday for RSA Encryption Demo; Featured on hackaday for an Atari 2600 IDE in the web browser