


# SEAN GILLEN

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 github.com/TortoiseWrath

## PROFESSIONAL EXPERIENCE

**Software Development Intern** Amazon, Seattle, WA SUMMER 2019

- Designed an internal API using a JAXB-like schema and specialized RPC framework
- Implemented a Spring application to make API calls using serialized objects from a database
- Defined a complex JSON schema and implemented recursive logic using Java 8 and Lombok
- Wrote unit tests for Java classes using JUnit, Mockito, and Hamcrest
- Deployed Java packages using an Ant-like build system, Git, and a proprietary CI/CD system

**IT Contractor** Forget Me Not Animal Shelter, Republic, WA SEP 2017 – PRESENT

- Automated website updates using PHP and a MySQL database
- Maintained web front-end using HTML, CSS, JavaScript, and jQuery
- Migrated administrative Python applications to the web using web.py on a LAMPy stack
- Installed and administered Windows computers and other devices on a workgroup network

**IT Contractor** The Anonymous Press, Chicago, IL APR 2013 – PRESENT

- Wrote Python and Excel VBA scripts to analyze sales data and optimize procurement
- Implemented responsive web homepage using HTML5 and JavaScript
- Developed PHP scripts to automate order fulfillment using third-party APIs
- Automated sales report generation from a MySQL database

## EDUCATION

The University of Alabama, Tuscaloosa, AL College of Engineering & Honors College

**Master of Science in Computer Science** MAY 2021

**Bachelor of Science in Computer Science** Minor: Mathematics MAY 2020

- Competitive programming team captain SPRING 2019
- Active member of Association for Computing Machinery student chapter 2017 – PRESENT
- National Merit Finalist & Presidential Scholarship recipient

## PROJECTS

**Quantum Trivia Takeover** qtriv.com JAN 2019

A trivia strategy game demonstrating basic quantum computing mechanics, built with an Angular/TypeScript front-end and a RESTful Python/Flask backend using IBM Qiskit.

**Super Hyper Advanced Search Tool VII** shast7.com DEC 2018

A tool to visualize price distribution of eBay listings on a JavaScript and CSS-based histogram with a PHP back-end interfacing with eBay's Finding API.

## SKILLS

**Programming Languages:** Java, C++, C, JavaScript, TypeScript, SQL, Python, PHP, Perl

**Tools and Frameworks:** Git, Lombok, JUnit, Linux, bash, Angular, Flask, jQuery, Microsoft Office