SEAN **GILLEN**

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github.com/TortoiseWrath

PROFESSIONAL EXPERIENCE

SDE 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 maintained 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/Unix, bash, Angular, Flask, jQuery, Batch