


SEAN GILLEN

(509) 779-2336

mail@seangillen.com

 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

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 Python/Flask back-end 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.

Bama Dining uadh.xyz FEB 2019

A website to quickly access hours for on-campus dining locations at the University of Alabama, built with PHP and XPath alongside crontab to request and cache each day's hours overnight.

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