

Jacob Landowski

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Growth-focused software developer student that holds a passion for solving complex technical challenges. Has a strong understanding of Object-Oriented Design, Java, and Javascript. Proficient at effectively communicating with others and able to articulate technical solutions.

Education / Skills

Bachelor's Degree In Software Development, Computer Science

Green River College - Auburn, WA
3.97 GPA

2016 – 2019

Washington Opportunity Scholarship
Green River Foundation Scholarship
Phi Theta Kappa Honor Society

Courses: Design Patterns, Software Maintenance, Data Structures, Algorithms, Discrete Mathematics, Agile Methodology

Skills: Java, PHP, Javascript, C++, Linux, SQL, MVC, Git, Version Control, REST API, Bootstrap 4, JQuery

Exposure: Nodejs, Python, Ruby, C, CORS, Google Cloud Platform

Certifications: Certified Scrum Master (CSM)

Experience

Graph Algorithm Visualizer [Duo Project]

Jun 2018 - Current

Pair programmed/developed graph data structure and algorithm web app to assist students studying graph algorithms and remove the barrier of entry of having to draw out random graphs to practice on.

- Javascript / Canvas
- MVC Pattern
- Command Pattern
- Object Oriented
- I created an Engine class to manage all 2D rendering.
- I utilized MVC to structure the entire program flow.
- I implemented Command Pattern to undo/redo/save/load.
- I represented Graph Data Structure through objects.

Mpowerment HIV Testing Map [Volunteer]

Mar 2018 - Jun 2018

Worked on a team to build an informational website for the non-profit organization Mpowerment, to help men at risk of HIV. Our focus was the testing center finder, made with a front-facing Google Map and an admin backend for data manipulation.

- JQuery / AJAX
- Google API
- MySQL Database
- I created the single page admin dashboard using AJAX.
- I utilized Google SearchBox for easy location registering.
- I managed the database for admin location registering.

- FatFree PHP MVC
- I set up weekday/service filters on the map location list.

Sentence Generator Forum [Solo Project]

Jan 2018 - Mar 2018

I created a machine learning inspired forum that kept track of all user posts and would have users' accounts create random posts in their absence based on their content.

- FatFree PHP MVC
- PHP / MySQL / PDO
- Bootstrap
- Material Design
- JQuery / AJAX
- Used MVC principles: routes, templates and PHP classes.
- Created a library for abstracting basic CRUD operations.
- Designed database for modeling a basic forum structure, handling threads, posts, and users.
- Implemented N Gram based string parsing and generation to randomly create posts/threads based on user content.

iGrad Registration Web App [Volunteer Kent iGrad]

Sep 2017 - Dec 2017

Worked on an agile team of 4 as lead backend developer and team organizer to develop a Web App solution to replace iGrad's 20 page paper application process.

- PHP / MySQL
- Bootstrap / JQuery
- Forms / Validation
- AJAX
- I implemented a self-rendering/validating component system to streamline the process of creating forms.
- I handled all of the AJAX calls client side.
- I managed team meetings and backlog.

Java Web Crawler [Solo Project]

Sep 2017 - Dec 2017

- Java / JSoup
- Design Patterns
- Threads
- Data Structures
- Used JSoup library to abstract HTTP requests for pages.
- Followed Consumer-Producer design pattern.
- Managed requests/parsing concurrently with threads.
- Applied various Data Structures: Maps, Queues, Sets.

Student Help Desk [Work]

Sep 2016 - Sep 2018

- Customer Service
- Work Orders
- Troubleshooting
- Google Sheets / Excel
- Provided technical solutions for students and faculty.
- Was responsible for over 200 systems in computer lab.
- Assisted school IT with troubleshooting and refreshes.
- Maintained inventory and patron metrics.