

James Marsh

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EDUCATION

Montana State University

Bozeman, MT

Bachelor of Science in Computer Science

Expected Graduation: May 2023

Relevant Coursework: Data Structures & Algorithms, Software Engineering, Full Stack Web Development, Programming Languages, Discrete Structures, Programming With C

TECHNICAL EXPERIENCE

Intern - Software Development

July 2021 – Present

Mackay Sposito

(Remote) Vancouver, WA

- Wrote a new web application to generate custom accounting reports (Javascript, R, and MySQL)
- Developed additional functionality for employee benchmarking tools (Javascript, R, and MySQL)
- Modeled power line repair procedures to forecast the impact of budget changes on repair time (Excel, VBA)

PROJECTS

Reddit Post Generator | *Python*

February 2021

- Developed an application to analyze posts on reddit and generate imitations
- Utilized Python Reddit API Wrapper to scrape text from Reddit posts on the video game *Path of Exile*
- Parsed text to generate positive or negative “attitude score” for each post
- Implemented Markov chain text generator to create posts reflecting the attitude of the forum each day

Sudoku Game & Solutions Guide | *Python*

December 2020

- Built a GUI to play the game of sudoku
- Wrote an algorithm for solving easy sudoku games using basic elimination
- Developed step by step solution/hint guide for new players.
- Implemented generalized solution finder for any solvable game using backtracking algorithm

U.S. Roads Shortest Path Calculator | *Java*

March 2021

- Built graph parser to generate a directed graph from a text file
- Implemented Dijkstra’s algorithm to find shortest path between two vertices
- Developed text UI to allow users to query shortest path between two vertices & display the path, if available
- Implemented GUI to visualize graph & any found paths

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, HTML/CSS, R

Developer Tools: Git, VS Code, Visual Studio, IntelliJ, NetBeans, Vi

PROFESSIONAL EXPERIENCE

Project Manager / Estimator

June 2016 – Aug. 2018

J’s Custom Landscaping

Vancouver, WA

- Prepared detailed written proposals and work orders for landscaping projects and maintenance plans
- Scheduled & coordinated subcontractors, materials delivery, and employees
- Managed foremen to ensure projects were completed to specifications in a timely manner
- Communicated with contractors regarding scheduling, change orders, and completion status
- Regularly worked with general contractors, business owners, property managers, homeowners associations, engineers, and government

Project Foreman

Dec. 2015 – June 2016

J’s Custom Landscaping

Vancouver, WA

- Managed crew of 2-4 people to follow blueprints & complete work orders to install landscaping

Irrigation Technician

June 2013 – Dec. 2015

J’s Custom Landscaping

Vancouver, WA

- Performed irrigation inspection, installation, and repair; worked 40-60 hours per week