

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, Discrete Structures, Computer Science Theory, Systems Administration

TECHNICAL EXPERIENCE

Intern - Software Development

July 2021 – December 2021

Mackay Sposito

(Remote) Vancouver, WA

- Wrote a new web application to generate custom accounting reports with Javascript, R, and MySQL
- Developed additional features for existing employee benchmarking tools with Javascript, R, and MySQL
- Modeled staffing procedures in Grant County PUD to forecast effects of budget changes using Visual Basic

PROJECTS

Shopify Pricing Plugin | *Express, NodeJS, PostgreSQL, GraphQL*

(In-Progress) Jan 2021 – Present

- Collaborated in a Scrum-based team to release an application to the Shopify app store for a client
- Designed and implemented database for customer pricing information
- Developed server with Express and NodeJS to provide GraphQL API for frontend
- Contributed to daily Scrum meetings, sprint planning and retrospectives

D&D Web Character Builder | *MongoDB, Express, React, NodeJS*

October 2021 – Dec 2021

- Collaborated in team to develop a full-stack web application with the MERN stack
- Designed and implemented databases for user & game data in MongoDB
- Implemented a REST API for retrieving & editing character data using Express
- Developed pages for users to create and view characters in React

Reddit Post Generator | *Python*

February 2021

- Developed an application to analyze posts on reddit and generate imitations
- Utilized Python Reddit API Wrapper (*PRAW*) to scrape text from Reddit posts on the video game *Path of Exile*
- Parsed text posts, indexed by keyword and date/time
- Implemented Markov chain text generator to create new posts for a given topic based on trending keywords

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 guide to generate hints for new players.
- Implemented generalized solution finder for any solvable game using backtracking algorithm

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, HTML/CSS, Visual Basic

Tools & Frameworks: Git, React, NodeJS, Express, NumPy, MySQL, PostgreSQL, MongoDB

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 collaborated and worked with general contractors, business owners, property managers, homeowners associations, engineers, and government