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, Database Systems, Software Testing

TECHNICAL EXPERIENCE

Software Engineer Intern

June 2022 - August 2022

Belvedere Trading, LLC

Chicago, IL

- Worked with a team of interns to develop a new web app for managing automated trading algorithms.
- Implemented C# server for business logic using ASP.NET Core and Entity Framework Core with a SQL database.
- Completed Hackathon project to add additional features to standalone .NET trading application.
- Received formal training in Python, C++, C#, and Financial Derivatives (Options, Futures).

Intern - Software Development

July 2021 – December 2021

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 for Grant County PUD to optimize budget allocation using Visual Basic

Projects

Mackay Sposito

Shopify Pricing Plugin | Express, NodeJS, PostgreSQL, GraphQL

Spring 2022

- 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

Fall 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

Spring 2021

- Developed an application to analyze posts on reddit and generate new ones on a chosen topic
- 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 popular keywords

Sudoku Game & Solutions Guide | Python

Fall 2020

- Built a GUI to play the game of sudoku
- Wrote an algorithm to generate a solution guide using constraint propogation
- Implemented generalized solution finder for any solvable game using backtracking algorithm

TECHNICAL SKILLS

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

Tools & Frameworks: Git, ASP.NET, SQL, React, NodeJS, Express, 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
- Regularly collaborated and worked with general contractors, business owners, property managers, homeowners associations, engineers, and government