

IMONI MCCORVEY

SOFTWARE ENGINEER

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EMPLOYMENT

iSeatz, *Software Engineer*, New Orleans, LA

Jan. 2019 - Current

A tech company that provides digital search and booking engine to companies in the travel industry.

- Integrated two new vendor APIs into our Ruby on Rails API back-end pipeline by collaborating with Architecture, Quality Assurance, and the Product Owner.
- Expanded the legacy back-end to accept more data according to our client's new business requirements by 20% using a protocol buffer.
- Increased velocity of future projects by two months by modularizing reusable components written in React, Redux, Ruby on Rails, and Typescript.
- Prototyped a rewards management system with the internal Product team using Ruby on Rails to showcase to prospective clients.
- Reduced back-end development complexity by condensing the number of back-end microservices from 21 to 11.

Space Telescope Science Institute Operated for NASA, *Science Mission Office Software Intern*,
Baltimore, MD

Sept. 2016 - May
2018

A science center dedicated to astronomical observations through the Hubble and James Webb Telescopes.

- Optimized back-end of a data analysis tool to improve performance and efficiency using PHP.
- Reduced data to user turnaround time by 87.5% restructured back-end of web application to automatically redirect user data to a file hosting service.
- Facilitated work in developing a native macOS client data analysis tool using Visual Studio allowing macOS users access to the software.

SKILLS

LANGUAGES / FRAMEWORKS: Python, Ruby, Ruby on Rails, React, MySQL, TypeScript, PHP, Swift

DEVELOPMENT TOOLS: Amazon Web Services (AWS), Microsoft Azure API, Git Version Control, Linux, Xcode, Visual Studio, Vim, Jenkins

EDUCATION

Johns Hopkins University

B.A. Computer Science 2018

Relevant Coursework

Computer System Fundamentals(C, C++), Data Structures(Java), Parallel Programming(Java, Python), Databases(MySQL), Object Oriented Programming, Declarative Methods.

PROJECTS

Serverless Golang API (Golang, AWS Lambda, AWS API Gateway)

2020 - Current

- Developed a lambda function in Golang using the MediaWiki API that simplifies accessing Animal Crossing character information for development use.
- Deployed an automatically scaling serverless RESTful API that allows users to filter character information using AWS Lambda and the AWS API Gateway.

Identify Mutual Friends (Java/Python).

2018

- Implemented a scalable and efficient solution to the Three's Company problem using parallel programming to efficiently process common relationships .
- Utilized the Map/Reduce paradigm for processing big data on a cluster of processors.
- Streamed the program using Amazon's Elastic Map/Reduce service(AWS) in order to better log issues.

Twitter Sentiment Analysis Extension for Chrome (Javascript)

2018

- Built a Chrome extension that aids twitter users in better curating their feed for their mental well-being.
- Integrated the Microsoft Text Analytics API to derive information from tweets.
- Enhanced a twitter web scraper tool written in JavaScript to extract text from a user's feed.
- Utilized jQuery to send and request data from Microsoft Azure for analysis.

College Comparison Database (MySQL/PHP)

2017

- Constructed a website for prospective students that provides job salary, SAT score, location, and administration rate school data using PHP and HTML.
- Implemented a relational database from massive complex data gathered from a variety of online datasets.
- Created stored procedures for code and performance optimization.

Musical Web Camera JavaScript Application

2017

- Built an application that analyzes color information from the user's web camera and outputs procedurally generated sounds.
- Developed a real-time video processing application to capture input.
- Integrated Google Chrome's Image Capture and ColorThief API to extract image data for analysis.

AWARDS

Member of the Student Activities Board for the Center for Social Concern

A Johns Hopkins University student run committee acting as a liaison between student volunteer groups and the local community they serve.

Awarded Freshman of the Year (JHU Track and Field)

Michael Bloomberg Scholars Award (Scholarship)

A scholars program instantiated by Michael Bloomberg (CEO Bloomberg L.P.).

ACTIVITIES

Community Involvement

- Elpha - A professional network for women in tech.
- Google's Women Techmakers - A global program committed to empowering women in the tech industry.