Jashish Madigyal

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https://github.com/JashMash

Skills

Technical

Coding: Python, SQL, C++, Matlab, VB Scripts, Object-Oriented Programming (OOP), Machine Learning, React.JS, C#
Technologies: GitHub, Deepnote, Jira, Shortcut, Serverless, Docker, Tensorflow, Datadog, Databricks
Databases: SQL, AWS, Neo4j, MongoDB
Learning: Java, ChatGPT, Microsoft Copilot, Node.js

Soft

Communication   Emotional Intelligence
Adaptability   Teamwork

Work Experience

Technical Operations Analyst (Node.js, MongoDB, Datadog, JQL)   Jan 2024 - Aug 2024

Neo Financial | Calgary, Alberta, Canada

Industry: Financial Technology, Digital banking platform

- Initiated and executed a full overhaul on our login and password reset flows for metrics and logging. This stopped over 6 bugs from hitting production and helped find flaws in our system even in the building of these metrics.
- First month setup a presentation on Datadog's monitoring and dashboarding capabilities to push for monitoring initiatives to become more proactive in finding issues before product or CES flags them to us.
- Worked on the code training camp, giving me insight on system design of our architecture and development habits within the org. Helped me understand Hex architecture (This is in private repo given the context of Neo)
- Conducted over 10 RCA's and process change meetings with directors and teammates, to improve code health, request flow, decoupling of services,

Product Software Engineer (Python, SQL)   May 2022 - Sep 2022

Scorched Ice (Startup) | Calgary, Alberta, Canada

Industry: Skate Technology, algorithms, software, firmware, and hardware development for skate data analysis

- Took the lead on behalf of the algorithm team of 3, **presented progress** on weekly sprints, **created** future metrics **road maps**, translated marketing team feedback which **improved productivity and direction**.
- Saved 4 to 5 ad hoc 1 on 1 meetings weekly and cut standups by 30 minutes each. **Directed the algorithm team's** tickets, progression, and mentored interns to ensure deadlines were met.
- Developed, tested, and deployed over 20 **AWS Lambda** services using **Docker** & **Serverless** that integrated with an **AWS crawler**. This stood as the backbone of the beta release.
- Gave managers insight on implemented features & tests performed, which reduced regurgitative meetings from initial 2-3 a week to 1. Introduced version control and administered the backend **GitHub** repositories.
- Created and configured data stores in **AWS S3** buckets at different stages through the algorithms. Drastically improved testing of new **ML models**' saving over 10 hours per optimization testing/integration.

Product Engineering Staff (Python, SQL, C/C++)   **Jan 2021 - May 2022**

Scorched Ice (Startup) | Calgary, Alberta, Canada

- Founded, designed, and integrated a physical exertion measure based on the players' age, weight, ranking, down-sampled accelerometer data, and length of activity. Intensity metric headlined the beta app to measure skater's efforts.
- Cut down pre-processing from 3 hours down to 6 minutes for each data session. Implemented a library of **Python** tools that parsed multiple hours of telemetry to movement duration, direction, start time and more.
- Devised a **Python** report generator for on-ice sessions, which used AWS API's to retrieve the skate data and generated reports with violin, line and bar plots. Eliminated over 2 hours of personalizing each report saving 20 hours a week.
- Doubled model evaluation and metric investigation speeds. Developed **Jupyter** notebooks that sorted data and determined metrics for any given skaters' session, with **LSTM model** predictions, and stride detection model.

Software Engineering Co-op (C/C++, VB Scripts)   **Jan 2018 - Dec 2018**

MRCSI | Calgary, Alberta, Canada

Industry: SCADA Software development, integration, and testing

- Wrote and expedited automated as well as manual testing cases for Automation, HMI, Database, Viewers, of the SCADA software using **C++**, tripling the speeds from development to deployment.
- UI and UX redesign of reading placements, warning markers, side logs, control panels on page layouts. Resulted direct consumer feedback for higher usability, and reliability.

Education

SAIT Fullstack Program   June 2023 – Oct 2023

University of Calgary - Schulich School of Engineering   June 2015 – May 2020
Bachelor of Science in Electrical Engineering

Projects

Data Compression - Python   April 2023
- Created a data compression algorithm to compress and decompress a Byte array.

Travel Agency - ASP.NET MVC   Sep 2023 - Present
- Creating a webpage that allows users to login and book a travel package, which will be altering databases.

Google Maps Scraper (tool developed for startup idea or itinerary planning**):**
https://github.com/JashMash/GMapsScraping
- Finds multiple types of public locations such as Parks, Museums, Restaurants, etc.
- With detailed information about URL, Rating, Review, Address, Categories, Hours of Operation, Coordinates and more

React.JS Profile:
https://jashmash.github.io/React_Profile/
- Created a profile page using React, to present my resume, API query and adding React Libraries.