Joshua Chang

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SKILLS

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

Tools and Frameworks: React, AWS, Docker, Kubernetes, Helm, Datadog, Terraform, Jenkins, Git

EXPERIENCE

Site Reliability Engineer | The Globe and Mail

Sept 2022 – Present

- Migrated **10+ AWS Aurora dashboards** from AWS Cloudwatch to Datadog, collecting **50+** metrics of key health and performance indicators to reduce costs and resources
- Created monitoring and alerting for 2500+ daily AWS Kinesis queries to catch 30+ anomalies by creating a Datadog metrics monitor provisioned using Terraform
- Organized and maintained Datadog dashboards and monitors for 100+ tools and services to ensure ease of use, reducing navigation times by 75%

Project Manager | University of Waterloo Product Management Club

August 2022 - Present

- Conduct **market research** and **communicate with stakeholders** to create new initiatives to help UW PM's mission to help grow and foster the product community at the University of Waterloo
- Create new features and provide POCs of the UW PM React web application and delegate tasks for developers and designers to ensure the team is on track for success with no blockages

DevOps Engineer | SAP Fioneer

January 2022 - April 2022

- Upgraded **Jenkins** production server and associated plugins to address security and vulnerability issues, while also **increasing job performance build times** and **CI/CD pipelines** by **15%**
- Worked with SAP Insurance software service codebase to upgrade **Log4J API**, finding suitable solutions for deprecated functionalities and customizing the API implementation to be compatible with various plugins and supporting APIs
- Created a BASH shell script to **automate** the process of **backing up SQL databases** to populate Nexus repositories, reducing the amount of manual labor spent by **85%**

PROJECTS

NHL Stat Tracker **%**

Python, Jupyter Notebook

- Created a webapp with Streamlit to display regular season statistics of NHL teams and skaters, providing key
 performance indicators that contribute to team success
- Collected, cleaned, and filtered 3k+ rows of data using **Pandas** and **NumPy** to provide graphic analytical insights using **Matplotlib** and **Seaborn**

Volleyball Statistics Program **%**

Java

- Developed an application to track offensive and defensive statistics of players and the team, supplying **analytical feedback** to athletes and coaches to achieve success in future matches
- Implemented a **GUI** to enhance user experience, displaying average scores and percentages of each statistic using **OOP**, **Methods**, **and ArrayList/Array Manipulation**

hy-bird. ®

Java, XML, JSON

- Collaborated with a cross-functional team using Git to develop an app using **Android Studio** that eases the transition for employees from home to office, **streamlining the hybrid work environment**
- Created a functional login and user dashboard with an integrated OpenWeather API, **parsing JSON data** to display the 5-day weather forecast according to city location entered by the user

EDUCATION

University of Waterloo

Waterloo,

ON

Candidate for Bachelor of Applied Science in Systems Design Engineering

2021-2026

• Relevant Coursework: Data Structures and Algorithms (C++), Human Factors in Design