BRANDON C. HOFFMAN

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TECHNICAL SKILLS

- Programming Languages: Java | C++ | Python | Scala
- Tools: AWS | Docker | Apache Pulsar | Kubernetes | Terraform | Helm | Splunk | DataDog | Artifactory |Git | Flask

WORK EXPERIENCE

Software Engineer II– The Climate Corp; *Seattle, WA* Apr 2022 – Current

- Implemented a message broker for microservices with Apache Pulsar, Kubernetes, and Terraform
- Engineered and deployed a canary test service as an ECS container, ensuring continuous validation of the core functionality of the message brokering platform
- Orchestrated the integration of a Datadog agent in the EKS cluster to collect and forward Prometheus metrics
- Developed Python Client libraries enabling Python end-users to produce and consume messages from the message brokering system
- Architected an Admin Client Java library in Java, serving as a wrapper around Pulsar endpoints, facilitating the deployment of topic-level changes to the broker
- Crafted dashboards and PagerDuty alerts for comprehensive measurement and monitoring of the "Event Platform."
- Optimized helm charts within our team's Terraform-based deployment of Apache Pulsar, enhancing configurability and performance

Software Engineer Contractor – The Climate Corp; *Seattle, WA* Sep 2021 – Promoted

- Configured forwarding of production and systems Pulsar cluster logs from Kubernetes to Splunk
- Automated startup script to initiate a Docker-ized pulsar cluster for local testing and development
- Learned Scala to contribute to on-call support for our "Jobs" micro service

Software Engineer Contractor – Fox Sports; *(remote) Los Angeles, CA* May 2021 – Sep 2021

- Wrote client module to wrap API endpoints into functions
- Built json parser to generate models from client APIs for NCAA football so to allow the application to not interact with URIs or JSON responses directly within the rest of the platform
- Wrote unit tests for legacy NFL codebase with their metrics and splits aggregators

Python Developer Contractor – Transfer Pricing Accounting; Amazon; *Seattle, WA* Jun 2020 – May 2021

- Engineered an application to recursively navigate shared network folders and return relative folder sizes for inputted hierarchy depth
- Optimized SQL queries with newer statements that utilize table indexes and adhere to SQL best practices
- Developed a solution to refresh monthly, inconsistently formatted accounting calculation files. Developed test plans, test scenarios and test cases to automate quality and accuracy automation of journal entry upload process
- Built Levenshtein distance string scorer application to compare non-identical strings to allow for non-communicative databases to integrate data points within Pandas DataFrame

Sr. Financial Analyst; Python Dev – Global Asset Management; Bank of Montreal; *Chicago, IL* Aug 2017 – Jun 2020

- Wrote Python programs/scripts to automate tasks for client service team and global investment teams:
    - Automated equity attribution consolidation process, transforming 400 excel files into 10-15 categorized workbooks by strategy name. Reduced a manual multi-day task to a monthly Python application running in under 5 minutes.
    - Saved the firm $140,000 by automating the monthly strategy commentary in house rather than purchasing and outsourcing a vendor solution by pulling from Factset API and transforming data within Pandas DataFrame
    - Revamped BMO GAM's Short Duration Investment Team's holdings dashboard by integrating InvestorTools API to dynamically pull data into .xlsx files, leveraging Pandas for data transformation.
    - Developed BMO GAM's Investment Equity Team to build an automated attribution aggregator which shortened a 7-hour process into an 11-minute process

Consultant – Project Controller Practice; Deloitte Consulting; *Chicago, IL* May 2015 – Jun 2017

- Budgeted and tracked the profitability for 14 projects for Eli Lilly exceeding $22 million dollars in revenue by utilizing SQL and Python Database Management
- Implemented client Invoice tracking system to compile and clarify complicated client invoicing system so any Deloitte resource can easily invoice when necessary. Average collections period was reduced from an average of 66 days to 63 days in my tenure

EDUCATION

Master's of Science in Computer Science, Georgia Institute of Technology; *Atlanta, GA*
Graduate Certificate in Software Design and Development, University of Washington; *Seattle, WA*
Bachelor of Business Administration in Finance, Evangel University; *Springfield, MO*