Kara Dietz

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SKILLS

Languages: Java, Python, Ruby, Go, C/C++, SQL, Bash, Swift
Tools & Frameworks: Docker, Kubernetes, GraphQL, Kafka, Rails, Flask, AWS, GCP, Maven, Git

WORK EXPERIENCE

Shopify | Backend Developer Intern   *May – Aug. 2021*

- Integrated theme app extensions into Shopify's online store editor used by 2 million+ merchants
- Designed and developed caching for app blocks, decreasing average load time from 40ms to 3ms
- Automated complete dev environment setup used by 200+ developers, saving 20min/day
- Built robust tooling for app extension developers to verify compatibility before manual testing
- Contributed to a new platform enabling effortless integration of rich online store features using Ruby on Rails with GraphQL APIs, dramatically increasing ease of use and customizability

Shopify | Production Engineer Intern   *Sept. – Dec. 2020*

- Spearheaded auto-scaling of Kafka topics supporting millions of messages per second, saving hours per week for developers and optimizing resource usage by >200%
- Designed Python package to monitor Kafka streams using Datadog and Github APIs, and deployed with Docker and Kubernetes, building the foundation for automated infra maintenance
- Enhanced Go and Ruby wrappers to accelerate incident management and minimize client code

Capital One | Software Engineering Intern   *Jan. – Apr. 2020*

- Created AWS Lambda, Kafka, and AWS Kinesis serverless pipelines to detect patterns and notify customers in real-time of potential fraudulent activity, achieving >95% customer satisfaction rating
- Added integration testing platform to real-time pipeline deployment process, eliminating up to 5 day production change approvals by surpassing quality thresholds, and enabling full CI/CD
- Validated data in Amazon S3 buckets with Apache Spark, Python, and SQL to confirm results

OpenText | Software Developer Intern   *May – Aug. 2019*

- Designed, developed, and tested debugging tool using Python and SQL to automate the categorization of test failures, and display data on a new webpage, saving 4 hours each week
- Automated UI tests using VMs via Jenkins, ensuring precision and decreasing runtime by > 5x

PROJECTS

Ballerinify | *iOS app using ML to identify the user's dance moves in real-time*

- Employed the Tensorflow Posenet machine learning model to map key points on a person's body

Daily Chess Pro | *Messenger bot sending subscribed users daily chess puzzles*

- Leveraged GCP's App Engine to host Flask API handling webhooks, and CronJobs for scheduled jobs

EDUCATION   *Sept. 2018 – Apr. 2023*

University of Waterloo | Bachelor of Software Engineering with a Diploma in Sustainability
GPA: 3.9/4.0 | Coursework: Data Structures & Algorithms, Databases, Operating Systems, OOP