Cameron Kurotori

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Education

University of California, Berkeley, Berkeley, CA   *Aug 2017 - May 2019*
B.S. Computer Science and Electrical Engineering, *3.77 GPA , Graduated With Honors*

Ohlone College, Fremont, CA   *Aug 2015 - May 2017*
Credits for Transfer, 3.94 GPA

Programming Languages

Go, advanced	**Bash,** advanced	**C/C++**, intermediate
Python, advanced	**JavaScript**, intermediate	

Toolset/Skills

AWS	Helm	Opentracing (Jaeger)
Docker	IBM Cloud	PGBouncer
FaaS	Istio	Pagerduty
Git	Jenkins/Groovy	PostgreSQL/MySQL
GitHub (API)	Kubernetes/Openshift	Prometheus
Grafana	Linux	REST (OpenAPI)
graphQL	NATS	Slack (API)
gRPC	NoSQL (Redis, MongoDB)	Terraform
		Travis CI

Accolades/Accomplishments

Outstanding Technical Achievement Award, Multi Channel Scheduler for IBM Quantum , *May 24, 2024*

Patent #12,010,229 Durability Enforcement of Cryptographic Keys in a Key Management System, *filed May 25, 2021, issued June 11, 2024*

Outstanding Technical Achievement Award, Key LifeCycle Management for IBM Cloud, *November 1, 2020*

IBM Recognition Experience 2021 Award (Top Performer), *June 15, 2021*

Work Experience

IBM, Quantum

Advisory Software Engineer, Backend   *May 2022 - Present*
- Senior developer for the Qiskit Runtime service that provides the REST API for researchers, educators and other quantum computing professionals and enthusiasts to submit quantum workloads to IBM's expansive fleet of state of the art quantum computers
- Manage and maintain the service including developing new features and troubleshooting and fixing bugs
- Participate and manage the on-call rotation schedule to monitor the service and respond to customer impacting events in a timely manner while we prepare to transition to a GA service
- Lead and owned the design and implementation for various internal and external features of the service, including Bring Your Own Bucket (BYOB), service configuration audit events, and administrator APIs for managing account onboarding and backend lifecycle
- DevOps Focal
  - Point of contact between our infrastructure team and developers
  - Oversee the design and implementation of DevOps tasks for our team including CI/CD and our developer resources (i.e. kubernetes cluster, database) and automation
- Assist in the design and implementation of the migration of our platform to IBM Cloud and bring my extensive cloud experience to align with IBM Cloud standards and make the transition for our team smoother

IBM, Key Protect, Hybrid Cloud

Staff Software Engineer, Backend   *Apr 2020 - May 2022*
- Senior developer for the Key Protect service maintaining my responsibilities as an Associate Software Engineer in addition to more senior responsibilities
- Mentored junior developers with a particular focus on writing clean, maintainable and thoroughly tested code
- Lead and owned the design and implementation for various external features of the service, including key rings and key lifecycle event sync

Associate Software Engineer, Backend   *Aug 2019 - Apr 2020*
- Managed and maintained the Key Protect live service offering in the IBM Cloud (99.99% SLA)
  - Participated in the on-call rotation schedule to monitor the service and respond to any customer impacting events and respond to internal and external customer issues
- Contributed to design of new features early on in process and develop and deploy as part of regular releases
  - Assisted with deployment of our releases every two weeks
  - Database management and integration for storing service data
- Key Protect DevOps Bot (Slack bot, Web GUI and REST API)
  - Owned, designed, implemented and maintained the Key Protect DevOps Bot to assist with the day to day operations of the Key Protect team
  - Provides functionality for management and allocation of infrastructure resources, on demand and periodic sanity testing and healthcheck of the service through a slack bot chat interface with an accompanying website

Software Developer Intern   *May 2018 - Aug 2018*
- Contributed to maintenance of the codebase of the backend of the Key Protect offering
  - Debugged and fixed bugs and contributed to refactors that cleaned up and organized the code better
- Team Health Check Dashboard
  - Collects and aggregated data from GitHub to analyze team member contributions and pull request throughput a creates graphs for visualization of the data
- Stethoscope - Interactive retrospective web application tool
  - Assisted in identifying and visually representing areas of improvement and areas of success within the workflow of squads Inspired by the *Spotify Squad Health Check Model* (*https://engineering.atspotify.com/2014/09/16/squad-health-check-model/*).