Krystian Wojcicki

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EXPERIENCE

Amazon   Toronto, ON
Software Engineer II   *July 2022 - Present*
- Architected and implemented a distributed employee search system using AWS Lambda, S3, DynamoDB, scaling up to 1,500 TPS with sub 50ms response time and driving $5m+ annual impact through retention improvement.
- Built LLM and MCP powered workflows to diagnose and resolve automated on-call alerts, autonomously handling 100+ tickets with near 100% accuracy.
- Developed an LLM powered reporting tool that helps 100+ managers quickly identify their employees' blockers and pain points, built using AWS Bedrock, Claude, and React.
- Mentored junior engineers through 1:1 sessions, code reviews, documents, and demos, enabling them to deliver a 20% cold-start reduction, integration tests, and email analytics leveraged for business reviews.
- Designed and implemented an automated birthday and "amaversary" reminder service using AWS Lambda, SQS, SES.
- Drove enhancements to a React, Java and ECS based survey platform by building a streamlined on-boarding experience that helps 2,000+ Amazonians fulfill their surveying needs. Expanded the distribution framework to support email, delivering 100k+ surveys a month and 1000+ tips a day.
- Migrated Amazon's DAX Client from AWS SDK for JavaScript v2 to v3, reducing bundle size and deployment time by over 50% and led open sourcing the library, which is now utilized by 100's of other projects.
- Led system hardening and performance initiatives using distributed caching and locking, host optimizations, eliminating deadlocks and race conditions, reducing on-call intervention up to 20% and increasing throughput by 45%.

Technologies: *Typescript, Java, AWS, Lambda, SQS, CDK, S3, ECS, SES, Glue, Athena, Bedrock*

Microsoft   Redmond, WA
Software Engineer   *Jun 2021 - July 2022*
- Led the team's resilience initiatives, increasing system reliability over 10%, through migrating from CosmosDB Changefeed to Azure Service Bus.
- Achieved a 10x increase in event-driven microservices processing capacity through architectural simplification and removal of obsolete components, enabling new customer onboarding.
- Developed critical features supporting a company wide SOX compliance initiative.

Technologies: *C#, React, Kubernetes, Azure, CosmosDB, ServiceBus*

Amazon   Winnipeg, MB
Student Software Engineer   *Sep 2019 - Dec 2019, Jan 2021 - March 2021*
- Created a set of C++ tools around AWS Thinkbox Krakatoa to reduce artist's cost up to 20%.
- Implemented multipart and deep pixel functionality for AWS Thinkbox Draft, enabling previously impossible VFX use cases.

Technologies: *C++, Python, Bash, Anaconda*

Scotiabank   Toronto, ON
Student Software Engineer   *May 2019 - Aug 2019*
- Created a PoC around OpenFaaS to develop the department's direction with respect to Serverless Functions.
- Migrated an old C++ service to Java Spring with an Angular Frontend. Setup a Jenkins based CICD pipeline with fully automated testing utilizing Selenium and JUnit.

Technologies: *Java, Docker, Kubernetes, OpenFaaS*

Nokia   Ottawa, ON
Student Software Designer   *Jan 2019 - Apr 2019*
- Enhanced the the team's device adapter code generator. Automating up to 100% of the device adapter creation.
- Created a Java golden file testbed and a Selenium/Javascript regression framework.

Technologies: *Java, ReactJS, Javascript, Karaf, Docker, Selenium, gRPC*

Rockport Networks   Ottawa, ON
Student Microservice Backend Developer   *May 2017 - Aug 2018*
- Designed and implemented a full log management and troubleshooting solution using the ELKB stack.
- Created an authentication and authorization service providing customers fine tuned RBAC controls.

Technologies: *Go, Openshift, Kubernetes, Elasticsearch, Kafka, Postgres, LDAP, REST*

Technical Personal Blog *https://kwojcicki.github.io/*   *Mar 2016 - Present*
- Authored insights for 50+ daily readers on AWS best practices, Elasticsearch, and practical engineering solutions

EDUCATION

Carleton University   Ottawa, ON
Bachelor of Science, Computer Science; GPA: 12.0/12.0   *Sept. 2015 – Dec. 2020*