John Wonjin Choi

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EDUCATION

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-	er Science (Intelligent Systems specialization)	Graduated: December 2019
•	alifornia, Irvine	
SKILLS		
Languages	Python, Scala, Java, Terraform, SQL, Bash, Flutter	
Streaming	Kafka, Spark	
Software/Etc.	Akka, Aurora, Docker, Git, GitFlow, Jenkins, K6, NoSQL, PagerD	
AWS	Athena, API Gateway, CloudWatch, CodeBuild, DynamoDB, EC2	
	Kinesis, Lambda, Neptune, RDS, Route 53, S3, SageMaker, Secr -	ets Manager, SQS, VPC
EXPERIENCE		
	eer II – Cox Automotive (Kelley Blue Book)	Oct. 2020 – Present
	pment, maintenance, and support of vehicle recommendation A	PIs and data streaming services across
	nsumer Insights release train	
	ned optimizations to Lambda functions to meet SLAs and improv	
-	and implementation of resiliency features across the teams' AW	•
		2018 – June 2019 Sept. 2019 – Oct. 2020
	ped a daily ingest process via AWS Lambda, EMR, and Spark jobs	-
	ngs into a Neptune database to keep the teams' insights up to da ed and refactored an AWS DynamoDB backfill Spark job while co	
•	o one GitHub repository by consolidating common business logic	
-	o simplify future development	and restructuring the Scala project in
	ed AWS monthly expenses by implementing Cloud Custodian pol	icies through a pipeline of AWS Lambdas
	AWS SQS, and Slack webhooks to monitor, alert, and clean up new/existing AWS infrastructure that violated	
	policies which consolidated management of AWS accounts	
	dated load testing efforts for the release trains' APIs by pipelini	ng the K6 load testing tool via Javascript
and Jer	nkins leading to greater CI/CD efficiency	
oftware Engir	eer Intern – Western Digital	June 2019 – Sept. 2019
 Develo 	ped a proof of concept for tiering data on a hybrid ActiveScale s	torage system via isolation forest
	ly detection with extensive Python and Bash scripting to pull and	aggregate S3 access logs leading to
-	hybrid storage efficiency	
	amlined the physical replacement process of NVMe drives within ActiveScale systems by developing a	
	script to debug symptomatic systems which aided engineers in	c ,
	the test time reduction of HDDs' manufacturing test cycles to b	e attainable by developing a supervised
	which saved several hours of reliability testing for engineers	
PROJECTS		
	y Sensor – Personal Arduino Project	Aug. 2019
•	nented a full 360° proximity sensor with an Arduino Uno and an	
	s any object within 12 meters of the LIDAR sensor which triggers	a passive buzzer and a dynamically
-	ng RGB LED changing with the nearest object's distance	
-	deling – Python Computer Vision Course Project (UCI Specialization	
Utilized	eted a 3D rendering of a teapot via point triangulation, mesh ger I 10-bit gray code patterns to decode and reconstruct images of	the teapot
•	d camera calibration, point cloud triangulation, mesh generation	
-	ter – 2018 LAHacks Python Project	Mar. 2018
	live, streaming analysis of a Blackjack game using the OpenCV in	hage/video analysis library in Python and
PyQt4	oul nented the concept of hi-low card counting in Blackjack using the	image data captured from a phone
 Implem livestre 		e mage uata captureu nom a phone
investite		