US Citizen
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Randy Deng

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Experience

AWS Kinesis - Software Engineer II   *8/2019 - Present*
- Designed, developed, and load tested component to prime thousands of proxy host caches with customer metadata in scalable and deployment-safe way
- Developed and refactored control plane code to increase throughput for internal APIs by 4x and reduce complexity when updating metadata stored in databases
- Refactored internal component which allowed increasing UpdateShardCount API limit from 500 to 10,000 shards and increased the speed of scaling

GTRI CIPHER - Student Software Engineer   *1/2018 - 5/2018, 8/2018 - 8/2019*
- Worked on Benign Agents Deployed for Automated Cyber Threat Representation (Bad ACTR), a software suite developed by GTRI that mimics malware activity patterns
- Designed and built Python Flask front-end for Bad ACTR to interact with backend malware mimic tools
- Tested machine learning models such as Markov Chains, Hidden Markov Models, and K-means to predict network traffic connections

AWS Kinesis - Software Engineer Intern   *5/2018 - 8/2018*
- Designed and developed component to audit usage-based bills for Enhanced Fan-Out feature

EuroAvionics - Software Engineer Intern   *5/2017 - 8/2017*
- Developed full-stack application to communicate with specialized aircraft hardware

Education

Georgia Institute of Technology, Atlanta GA
Masters in Electrical and Computer Engineering, GPA: 3.66/4.00   *1/2019 - 7/2019*
Bachelors in Computer Engineering, GPA: 3.84/4.00   *8/2015 - 12/2018*
Awards: Highest Honors, Faculty Honors, Deans List
Activities: The Hive Makerspace, Astronomy Club, Eta Kappa Nu (HKN)

Projects

Nanoscale Barcode Identification   *3/2019 - 5/2019*
- Tested and optimized classification results using machine learning algorithms to correctly identify 5-length fluorescent DNA monomer sequences for molecular tagging

President of The Hive Makerspace   *5/2018 - 4/2019*
- Responsible for grand opening, hiring, operation, and maintenance of brand new, 3 floor makerspace with electronic/hardware tools and 100+ student volunteers
- Worked closely with Georgia Tech faculty and company sponsors to host events/workshops and bring in wide variety of tools and electronic components for students to use

RQ Docker Supervisor Template   *7/2019*
- Developed publicly available template on Github on how to start RQ workers in Docker using supervisor

Skills: AWS, Java, Git, Bash/Shell, Distributed Systems, Spring Framework, Python, Flask, HTML/CSS