




RYAN KANN

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 Arlington, VA  (703)-678-6448

EDUCATION

University of Virginia

Aug 2020 - May 2021

Master of Computer Science

Concentration in AI and Machine Learning

University of Virginia

Aug 2016 - May 2020

Bachelor of Science in Computer Science

SKILLS

Languages:

Python, Java, C#, Bash/Zsh, TypeScript, Kotlin, C/C++, Rust, SQL

Frameworks and Technologies:

AWS, PyTorch, TensorFlow, Django, ASP.NET, Linux

Software & Tools:

Git, Visual Studio, IntelliJ IDEA, PyCharm, Unity, Asana, Jira

Other:

Machine Learning, Cloud Computing, Networks, Vision, Graphics, DevOps

WORK EXPERIENCE

AMAZON, Arlington, VA

Aug 2021 - Current

Software Development Engineer I

AWS Outposts

Developed the software that establishes and monitors VPN connections between customer sites and AWS.

- Deployed our service to 26 new availability zones. Made this process 50% automated, increasing turn-around time for new deployments from 3 months to 1 week.
- Created DevOps tool to update developer environments and frequently used queries, reducing the time for this process from 2-3 hours and many steps to 20-30 minutes and 1 click.

Paper Doll Virtual Try-On

Developed APIs and lambda functions for handling customer images.

- Implemented API to allow authenticated users to safely delete customer images and metadata from DynamoDB and the Critical Asset Store.
- Modified back-end services to allow integration tests to set-up and tear-down database entries ad hoc, eradicating stagnant test data from our production environment.
- Created system for keeping Amazon apparel buyability information up-to-date. Created an S3 bucket with an alarm to trigger a Lambda which processed and queued updates via SQS to a DynamoDB table. Updated the project CDK to deploy these changes to the production AWS environment.
- Set-up unit test and mocking packages and wrote unit tests, bringing the code coverage for our Lambda functions stack from 0% to 90%.

ALARM.COM, Tysons, VA

Jun 2020 - Aug 2020

Software Engineering Intern

Full stack ASP.NET developer for Alarm.com Dealer Site.

- Redesigned Security Panel properties page to queue changes and submit in batches rather than one at a time, reducing packets sent from $O(n)$ to $O(\text{constant})$.

NASA Goddard Space Flight Center, Greenbelt, MD

Jun 2017 - Aug 2018

Software Engineering Intern