






# Karishma Reddy Khan

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## Experience

Sep 2023–Present	<b>Amazon Retail Stores Expansion, Amazon   Seattle, WA</b> <i>Software Development Engineer</i> <ul style="list-style-type: none"><li>Designed and implemented a data ingestion pipeline as part of a chatbot for vendor negotiations</li></ul>
Nov 2022–Sep 2023	<b>Amazon Compute Services, Amazon   Seattle, WA</b> <i>Software Development Engineer</i> <ul style="list-style-type: none"><li>Worked on a proxy to help balance and redirect traffic through EC2 instances</li></ul>
Jan 2022–Aug 2022	<b>Clutter   Seattle, WA</b> <i>Software Development Engineer</i> <ul style="list-style-type: none"><li>Implemented A/B tests to improve customer reservation rates and retention</li><li>Implemented new features to improve useability of customer facing websites</li></ul>
June 2019–Jan 2022	<b>Alexa Music Voice Experience, Amazon   Seattle, WA</b> <i>Software Development Engineer</i> <ul style="list-style-type: none"><li>Developed multiple A/B experiments to drive customer listening minutes and retention</li><li>Completed API development, backend code inclusion and Mobile App code for new Autoplay feature</li><li>Acted as mentor and primary support for multiple away teams and interns</li></ul>
July 2017–June 2019	<b>Amazon Web Services, Amazon   Seattle, WA</b> <i>Software Development Engineer</i> <ul style="list-style-type: none"><li>Only developer on an AWS Business Intelligence team</li><li>Sole owner of software tools for data transformation, email reporting and data validation</li><li>Fully designed and developed a serverless cloud native data validation software tool</li></ul>
June 2016–Aug 2016	<b>High Energy Physics Lab, Brandeis University Physics Department   Waltham, MA</b> <i>Programmer</i> <ul style="list-style-type: none"><li>Developed a Matlab GUI to simulate experiments to map the human eye</li><li>Developed image stitching algorithms to stitch together experimental data results</li></ul>
June 2013–Aug 2013	<b>Fermi National Accelerator Lab   Batavia, IL</b> <i>Research Student</i> <ul style="list-style-type: none"><li>Worked with Wire Position Monitors (WPMs) used to detect motion in Linear Accelerator Cavities</li><li>Developed a Matlab GUI to analyze data from WPMs that is still in use</li></ul>

## Projects

The Ring		Web based boxing timer app including notes and videos from boxing trainers.
Jon Snow		Mini web based weather client that, in the spirit of Jon Snow from GoT, knows nothing.
Quantum Escape		Escape the room style game built using Blender and Python
CCD		Matlab program that simulates a CCD camera using pixel binning and Riemann sums
Turtle 2.0		Arduino robot with IR driven object avoidance and RF dynamic communication

## Skills

Programming	Java, Python, Ruby, React, JavaScript, HTML, Matlab
AWS	Lambda, DynamoDB, API Gateway, ECS, Fargate, CloudFront, SES, SNS, CloudWatch
Tooling	Git, L <sup>A</sup> T <sub>E</sub> X

## Interests

Boxing, video games, rock climbing, comic books, theatre