

# Karishma Reddy Khan

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## Education

Sep 2015–May 2017	<b>Brandeis University   Waltham, MA</b> Master of Arts   Computer Science
Sep 2011–May 2015	<b>Mount Holyoke College   South Hadley, MA</b> Bachelor of Arts   Magna Cum Laude Majors: Physics and Theatre   Minor: Electrical Engineering

## Experience

June 2019–Present	<b>Alexa Music Voice Experience, Amazon   Seattle, WA</b> <i>Software Development Engineer</i>
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>
Sep 2015–Dec 2015	<b>SAXSLAB U.S.A.   Northampton, MA</b> <i>Developer</i> <ul style="list-style-type: none"><li>• Updated pre-existing Matlab 2012a GUI code to be compatible with Matlab 2015a</li><li>• Software is currently in use for X-Ray scattering analysis</li></ul>
June 2015–Aug 2015	<b>Molmex Scientific   Northampton, MA</b> <i>Intern</i> <ul style="list-style-type: none"><li>• Designed 3D models in SolidWorks currently in use on Small Angle X-Ray scattering devices</li><li>• Improved user interface of scattering devices using <i>spec</i>, a C-like language</li></ul>
May 2012–May 2015	<b>Mount Holyoke College, Atomic Force Microscopy Lab   South Hadley, MA</b> <i>Research Fellow with Dr. Katherine Aidala</i> <ul style="list-style-type: none"><li>• Researched solar cell applications of nanoscale semi-conductors called Quantum Dots</li><li>• Studied crack formation in sub-monolayers of PbS Quantum Dots</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><li>• Demonstrated that Matlab is compatible with Fermilab's accelerator network</li></ul>

## Skills

Languages	Java, Ruby, JavaScript, HTML, Python, Matlab
AWS	Lambda, API Gateway, ECS, Fargate, CloudFront, SES, SNS, CloudWatch
Frameworks	Ruby on Rails, Sinatra
Tooling	Git, L <sup>A</sup> T <sub>E</sub> X, MySQL

## Interests

Theatre, particularly stage management, writing and directing, comic books, video games, travel