Karishma Reddy Khan

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Education

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

Experience

June 2019–Present

Alexa Music Voice Experience, Amazon | Seattle, WA
Software Development Engineer
- Developed multiple A/B experiments to drive customer listening minutes and retention
- Completed API development, backend code inclusion and Mobile App code for new experiences
- Acted as mentor and primary support for multiple away teams and interns

July 2017–June 2019

Amazon Web Services, Amazon | Seattle, WA
Software Development Engineer
- Sole owner of software tools for data transformation, email reporting and data validation
- Fully designed and developed a serverless cloud native data validation software tool

June 2016–Aug 2016

High Energy Physics Lab, Brandeis University Physics Department | Waltham, MA
Programmer
- Developed a Matlab GUI to simulate experiments to map the human eye
- Developed image stitching algorithms to stitch together experimental data results

Sep 2015–Dec 2015

SAXSLAB U.S.A. | Northampton, MA
Developer
- Updated pre-existing Matlab 2012a GUI code to be compatible with Matlab 2015a
- Software is currently in use for X-Ray scattering analysis

June 2015–Aug 2015

Molmex Scientific | Northampton, MA
Intern
- Designed 3D models in SolidWorks currently in use on Small Angle X-Ray scattering devices
- Improved user interface of scattering devices using *spec*, a C-like language

May 2012–May 2015

Mount Holyoke College, Atomic Force Microscopy Lab | South Hadley, MA
Research Fellow with Dr. Katherine Aidala
- Researched solar cell applications of nanoscale semi-conductors called Quantum Dots
- Studied crack formation in sub-monolayers of PbS Quantum Dots

June 2013–Aug 2013

Fermi National Accelerator Lab | Batavia, IL
Research Student
- Worked with Wire Position Monitors (WPMs) used to detect motion in Linear Accelerator Cavities
- Developed a Matlab GUI to analyze data from WPMs that is still in use

Skills

Programming	Java, Ruby, JavaScript, HTML, React, Ruby on Rails, Matlab
AWS	Lambda, API Gateway, ECS, Fargate, CloudFront, SES, SNS, CloudWatch
Tooling	Git, LaTeX, MySQL

Interests

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