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, DynamoDB, API Gateway, ECS, Fargate, CloudFront, SES, SNS, CloudWatch
Tooling — Git, LaTeX, MySQL

Interests

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