Karishma Reddy Khan

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Experience

Nov 2022–Present — **Amazon Compute Services, Amazon | Seattle, WA**
Software Development Engineer
- Developer on the BigMesh Proxy team

Jan 2022–Aug 2022 — **Clutter | Seattle, WA**
Software Development Engineer
- Implemented A/B tests to improve customer reservation rate and retention
- Implemented new features to improve useability of customer facing websites

June 2019–Jan 2022 — **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 Autoplay feature
- 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
- Only developer on an AWS Business Intelligence team
- 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

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

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

Projects

The Ring	Mini web based boxing timer 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 bining and Riemann sums
Turtle 2.0	Arduino robot with IR driven object avoidance and RF dynamic communication

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

Interests

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