Rohit Roongta

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EDUCATION

Master of Science (MS) in Computer Science *Aug 2019 - May 2021*
Arizona State University, Tempe, Arizona, USA (CGPA: 4.0/4.0)

Bachelor of Engineering (BE) in Computer Engineering *May 2013 - May 2017*
Sardar Patel Institute of Technology, Mumbai, India (CGPA: 9.53/10)

PROFESSIONAL EXPERIENCE

Software Development Engineer II – Amazon – *Seattle, USA* *Jul 2021 – Present*
Alexa Spoken Words

- Working on building **Books Skill Kit (BSK)** to help providers to distribute their content on Alexa platform and aid additional capabilities to support books handling such as chapter navigation, seek and reading speed.
- Mentoring and guiding an intern to develop an interactive and intelligent Alexa skill that leverages **Generative AI (LLM)** to enhance the current stories experience in Alexa.
- Collaborating with **Alexa Latency** to analyse the latency impact to Audio goals incurred by the BSK project and guaranteeing that the **User Perceived Latency (UPL)** is less than 2s to improve customer experience and retention.
- Spearheading **operational readiness** for BSK to evaluate and mitigate operational risks to uphold operational excellence.
- Dedicated efforts on building a seamless voice-based customer experience for **300K Kindle users** on Alexa, for the purpose of accessibility, by building an engaging and voice friendly book reading experience by leveraging **TTS** technologies.
- **E2E ownership** of designing and implementing a feature that elevates the reading experience on Alexa, enabling the display of book content on screen while Alexa reads, akin to the music experience offered by platforms like Alexa Music, Spotify.
- Devised **Kindle Assistive Reader** toggle flag functionality across echo device family and mobile app to differentiate between accessibility-focus customer experience and commercial TTS or audiobook offered by other providers such as Audible.
- Onboarded a fully managed **Entity Resolution** service which reduced latency by 10% and improved search efficiency by 6%.
- Developed a new service using **ECS Fargate, Route53, Elastic Load balancer and CDK** for extracting e-book content, and generating metadata and artifacts such as texts and style annotation to allow authors to create TTS audiobook as eBooks.

Software Developer Intern – ASU Biodesign Institute – *Tempe, USA* *Dec 2020 – May 2021*
Virginia G. Piper Biodesign Center for Personalized Diagnostics

- Administrated and engineered an e-commerce website using **JSP, Tomcat, Struts and MySQL** along with additional proteomic research functionality such as automated clone evaluation, biomarker discovery and microarray processing.
- Accelerated the performance by 25% by analyzing the **JBDC connection pooling** and refracting the existing codebase.
- Enhanced the pricing mechanism by batch-order processes and handling cost based on profile, increased revenue by 10%.

Software Development Engineer Intern – Amazon – *Seattle, USA* *May 2020 - Aug 2020*
Amazon Music

- Built a full-stack application, Bulk Mixing Tool, to generate 1000s of polished interludes in a timeframe of 15 mins.
- Designed a server-less website architecture on **AWS Lambda, S3, Dynamo, React, and Redux** with custom APIs.
- Integrated **AWS Polly and Alexa** skill services for rendering TTS and real-time audio mixing respectively.
- Innovated methods to support relative audio positioning and truncation, and sound effects like fading out, fading in, and volume and voice manipulation using the **MP3agic java library and Alexa service**.

Analyst - Nomura Services India Private Limited – *Mumbai, India* *Jul 2017 - Jul 2019*
Wholesale Production Data Services

- Architected the structural metadata to enhance the logical pre-processing of vendor data, mitigating inaccurate trading order placement and resulting in an estimated annual cost savings of around $1 million.
- Reduced manual task by 60% by on-the-fly user data extraction and generating real-time monitoring health reports to check performance deterioration for **Oracle, Sybase, and Autosys** batches using **SQL and shell scripts**.
- Collaborated with cross-functional teams to create runbooks, set timelines, and manage pre/post-migration tasks, resulting in a successful **UCS database migration** that boosted performance by 19% and cut costs by 7%.
- Shouldered **'Domain Owner'** responsibilities for pricing reference data system, encompassing E2E ownership of production, analysis of business requirements, and prioritization of JIRA tasks to ensure the smooth operation of the application.

SKILLS

Languages	Java, Shell scripting, Python, JavaScript
Distributed System / Databases	Sybase, Oracle, PostgreSQL, MySQL
Framework / Tools	React, Redux, JQuery, Flask, Spring, Github, Docker, Autosys, ServiceNow, Android, JIRA, ITIL, ITSM, AWS, Mockito, Junit, Dagger, CI/CD, TDD, HTML, CSS