Rohit Roongta

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EDUCATION

Master of Science (MS) in Computer Science   *Aug 2019 - May 2021 (Expected)*
Arizona State University, Tempe, Arizona, USA   *(CGPA: 4.0/4.0)*
- **Graduate Teaching Assistant -** Web Design and Development, and Business Information System Development.

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

SKILLS

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

PROFESSIONAL EXPERIENCE

Software Developer Intern – ASU Biodesign Institute – *Tempe, USA*   *Dec 2020 - Present*
Virginia G. Piper Biodesign Center for Personalized Diagnostics
- Designing and building innovative software and web-based software using JSP, Tomcat, Struts and MySQL for functional proteomic research applications such as automated clone evaluation, biomarker discovery and microarray processing.
- Creating and testing high throughput bioinformatics tools for biomedical advanced research and development projects.

Software Development Engineer Intern – Amazon.com LLC – *Seattle, USA*   *May 2020 - Aug 2020*
Amazon Music
- Built a full-stack application, Bulk Mixing Tool, enabling content programmers to generate numerous polished interludes by uploading audio assets and specifying mixing instructions to combine the audio files.
- 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.
- Implemented robust server-side open-ended table pagination using AWS UI framework Airwolf and UX framework Polaris.
- Formulated transformation rules to convert user-provided mixing instructions into APLA documents for audio processing.
- 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 improve logical data pre-processing of vendor data to prevent inaccurate trading order placement, in turn saving approximately $1 million annually.
- 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.
- Organized and executed UCS database migration by collaborating with stakeholders, enterprise infrastructure, and application teams to compile runbooks, schedule timelines, and determine pre-migration and post-migration activities.
- Debugged and analysed shell scripts, Java and Python jobs to procure root cause for production issues.
- Shouldered 'Domain Owner' responsibilities for a pricing reference data system which involved complete ownership of production, analyzing business requirements, and prioritizing JIRA to ensure seamless application.

RELATED PROJECTS

Pandemic Spread | *(D3, Python, React, MongoDB)*   *Aug 2020 - Dec 2020*
- Modelled an interactive visual analytics system to help health officials characterize and analyze the pandemic information.
- Implemented various components using D3 and React to showcase data like symptoms, outbreak, cases across locations.

Question-Answering Model for MultiRC dataset | *(Python)*   *Jan 2020 - Apr 2020*
- Performed extensive research on the traditional approaches used in multi-hop multi-choice question answering task.
- Devised named-entity-recognition (NER) approach and attained an F1 score of 60, improvement over BERT baseline model.

Geospatial Cluster Computing System | *(Python, Hadoop, Apache Spark, AWS)*   *Jan 2020 - Apr 2020*
- Implemented spatial operations on enormous New York City Taxi Trip Dataset stored in a distributed Hadoop-spark cluster.
- Carried out hot zone and hot cell analysis to evaluate the distributed architecture performance by manipulating config.

ASL Recognition | *(PHP, Python, Java and Android)*   *Aug 2019 - Dec 2019*
- Developed a full-stack android application to recognize American Sign Language gestures captured through the camera.
- Benchmarked feature extraction using PCA, SVM, and NN and obtained an average accuracy of 63% over the algorithms.