

Mugunthan R

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Pudukkottai

WORK EXPERIENCE

Software Development Engineer

April 2022 - Present

Amazon Software Development Centre, Chennai

- Working on LLM based features to make Alexa more conversational and personalised.
- Designed and Developed share to phone application which enables customers to send the alexa content to their mobile phones.
- Worked on developing scalable services (with ARest and RPC API) for Social Feed in Alexa. The services were able to handle 2000 TPS.
- Implemented Elastic search based search for followable entities for customers to follow and unfollow via voice. This helped users to follow over million entities
- Designed and Implemented reactive system that will deliver the feed updates to multiple channels across alexa like Multimodal device Home, Widgets and notification updates.
- Developed a platform in Alexa, which enables customers to share content.

Member of Technical Staff

June 2020 - April 2022

Zoho Corporation, Chennai

- Developed web based features for Zoho Vault, a password management tool, focusing on generation of reports for customers based on the weak passwords, password access
- Spearheaded the creation of a cross-platform command-line utility for Zoho Vault, facilitating secure password management across Windows, Mac, and Linux environments.
- Played a key role in testing and debugging efforts, identifying and resolving issues to deliver robust and reliable software solutions to end-users.

Software Development Engineer Intern

January 2020 - June 2020

Amazon Development Centre, Chennai

- Automated testing in the pipeline for a pricing service, increasing the developer velocity of the team. This reduced the time to production by 50% eliminating the need for manual QA
- Migrated the logs solution to columnar storage as part of the traceability project, resulting in a 30% reduction in team costs while enhancing data processing efficiency and scalability.

SKILLS

Java, AWS, AWS CDK, TypeScript, Python, C++, API Design, NoSQL Database, Git, IntelliJ IDEA,

EDUCATION

Bachelor of Engineering: Electronics and Communication Engineering

2016 - 2020

PSG Institute of Technology and Applied Research, Coimbatore

ACADEMIC PROJECTS

Ultrasonic and Camera Based Parking Assistant System (UCPAS)

Affiliated With: L&T and PSG Institute of Technology and Applied Research

- Deep Learning Based Parking Assistant system that finds the objects present in the surrounding of the car and maps them in the dashboard of the car
- YOLOv3 was used to identify the objects and MATLAB was used to correlate the data from the ultrasonic sensors and camera.
- This is a prototype which will use to develop a semi autonomous vehicles

CERTIFICATIONS

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| ● Intro to Self-Driving Cars, University of Toronto | September 2021 |
| ● IBM AI Engineering | June 2021 |
| ● Build Basic Generative Adversarial Networks | April 2021 |
| ● Machine Learning, Stanford Online | March 2021 |
| ● Machine Learning in Python Level - 1, IBM | January 2021 |
| ● Python for DataScience Level - 1, IBM | January 2021 |
| ● Introduction to Packet Tracer, CISCO | January 2021 |
| ● Create and Manage Cloud Resource, Google Cloud | January 2021 |
| ● Deep Learning with Tensorflow, IBM | January 2021 |
| ● Perform Foundational Data, ML, and AI Task in Google Cloud, Google Cloud | January 2021 |
| ● Deep Learning, Coursera "Specialization" | June 2020 |
| ● Introduction to Tensorflow, Coursera "Specialization" | July 2020 |

COMMUNITY CONTRIBUTION

- Medium Writer (self and Towards AI) - <https://mugunthanramesh.medium.com/>
- Associate Member, Omdena India Chapter