

Srihari Vishnu

AWS-Certified Cloud Practitioner | Experience with Cloud, Web and Mobile | Interested in Backend Opportunities

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EXPERIENCE

TextNow – Software Developer Intern

Jan 2022 – Apr 2022

Docker, Kotlin, Java, Python, SQL, Gradle

- Proposed and built solution for users to receive customer support via SMS by leveraging **ML and NLP** to compute sentence similarities; able to respond to **50+** FAQ questions
- Optimized **SQLite** database with an LRU in-memory caching layer improving average read performance by **50-75x**
- Designed and implemented a scalable app data migration system affecting **2M+** daily active users
- Published a detailed article summarizing my performance investigations in the company [blog](#)

Dropbase (YC W20) – Backend Developer Intern

Mar 2021 – Dec 2021

Flask, Python, Snowflake, PostgreSQL, AWS Lambda + ECS + S3 + EC2, Rabbit MQ, SQL, REST API

- Researched and created algorithm to automatically generate data given input and output examples from the user - utilized **Dynamic Programming** to optimize queries by **20%**
- Built service for users to create modular ETL pipelines from **25+** external data sources into **Snowflake**
- Redesigned CSV upload microservice for scalability, improving upload speeds by **2.6x** for gigabytes of data
- Deployed **Rabbit MQ** instance (Amazon MQ) and utilized master + worker node architecture to process files
- Worked closely with CTO to design architecture on **AWS** and represented the company with external vendors

Open Learning Exchange – Systems Developer Intern

Oct 2019 – Sep 2020

Python, Kotlin, Java, IoT, Bluetooth, Linux (Debian), Bash, Docker, Travis CI

- Rearchitected Bluetooth server to distribute work among processes, increasing throughput by 8x
- Created UI for managing and monitoring **20+ Docker** containers such as Maria DB, NextCloud and Portainer
- Integrated a functional **SSH Client** to remotely connect and send commands to SSH servers from a mobile device
- Worked remotely with a global team spread across multiple time zones and led initiatives to create new features

TECHNICAL SKILLS

Languages: Go, Python, C/C++, Java, TypeScript, JavaScript, Kotlin, SQL

Technologies: Docker, PostgreSQL, Redis, Snowflake, Amazon Web Services (AWS), Git, Linux, Flask, Node.js

PROJECTS

TextGrab – Video Text Extractor Service (bit.ly/3KaxLtx)

Winter 2022

React, TypeScript, Python, OCR, Terraform, Machine Learning, AWS Elastic Beanstalk

Chrome Extension & API utilizing ML to extract text from online visual media such as Google Meet and Youtube

Docker Hub Implementation (bit.ly/3l0y5Qi)

Fall 2021

Go, Python, Maria DB, AWS Elastic Beanstalk, S3, Terraform, Docker Compose

API that supports user authentication, pushing, pulling and searching Docker images from a CLI application

Remote Code Execution Environment (bit.ly/3spKf9x)

Summer 2021

Go, TypeScript, React, AWS (EC2, RDS, VPC), Docker

Web app & server allowing Collaborative Terminal Environments within the browser by leveraging WS connections

EDUCATION

Bachelor of Software Engineering

Expected 2025

University of Waterloo – Cumulative GPA: 95.39% (Dean's Honours List)

ACCOMPLISHMENTS & INTERESTS

- [Hack the North 2021 Winner \(450+ teams\)](#)
- Top 4% in Senior Canada Computing Contest (2019)
- Interests: Soccer, Volleyball, Table Tennis, Drone Photography