Aravind Jyothi

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Education

- Master of Science in Computer Science, University of Southern California (2020)
 - Notable Coursework: Theoretical Machine Learning, Information Integration, Web Search Engines
- Bachelor of Technology in Information Technology, Madras Institute of Technology (2018)
 - Notable Coursework: Algorithms, Data Structures, Operating Systems, Databases, Digital Image Processing, Soft Computing and Computer Networks

Work Experience

- Software Development Engineer Amazon Web Services, Seattle WA (July 2020 Present)
 - Working with a fast-paced agile team for AWS IoT Greengrass which is an open-source edge runtime and cloud service that helps customers build, deploy and manage device software.
 - Experience building and operating a cloud service at scale deployed to multiple regions across the world: Contributed significantly to Greengrass V2 launch during reInvent 2020 – Designed and built multiple cloud REST APIs and cross-functional customer features which involved console and device teams.
 - Experience building software solutions with existing AWS services (S3, ECS, DynamoDB, Lambda, API Gateway, Kinesis, CloudWatch, CloudFormation etc.)
 - Experience with CI/CD deployments with extensive end to end testing such as User Acceptance and Integration Testing.
 - Providing excellent on-call support for the service. Designed and implemented the alarming infrastructure for high severity issues from the ground up.
- Software Engineering Intern Schlumberger, Houston TX (May 2019 August 2019)
 - Worked on a product which analyses and predicts profits, oil generation volume and cost using multiple input factors.
 - o Implemented multidimensional sampling for sensitivity analysis with methods such as agglomerative and k-means clustering and a design of experiments approach using cartesian products.
 - Designed search space reduction approaches with a high reduction ratio and a nearest neighbor search for a particular data point using K dimensional trees.
 - Worked with complex parallel processing architecture (Rocket API, SLURM, GCP) to run multiple experiments.
- Software Engineering Intern Caratlane, Chennai (May 2017 August 2017)
 - Caratlane is a leading e-commerce website in the Indian market.
 - As part of the desktop team, designed and coded landing and subscription page for customers using HTML, CSS and JavaScript.
 - Wrote a REST API for retrieving customer data for an email subscription feature.
 - Helped migrate a significant portion of the codebase from Angular to React.

Skills

- Programming Languages: Python, Java
- Databases: PostgreSQL, DynamoDB, MySQL & MongoDB
- Web Technology: HTML, CSS, JavaScript React, Angular, Node.js runtime, Flask, Django
- Version Control, Orchestrators & Containers: Git, Azure DevOps (VSTS), Docker, Kubernetes

Projects

- News Search Engine Python, Flask, Jinja, JavaScript
 - Built a web search engine which indexed hundreds of thousands of news articles from The Guardian using page rank algorithm and lucene (apache solr)
- Corona Dash REST APIs, HTTP requests
 - A flask application which tracks the COVID-19 pandemic cases in real time along with top headlines,
 API support & twitter streaming
- Loki (Low Key) A package which provides IP, port pairs with random proxy rotation