ROHIT MOHANTY

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Academics

Master of Science (ScM) in Computer Science at Brown University, RI — Aug 2021 - May 2023
Bachelor of Technology in Electrical and Electronics Engineering at IIIT Bhubaneswar, India — Aug 2013 - June 2017

Technical Skills

Languages	C++, Python, C, JavaScript, Java, Shell script	**OS**	Windows, Mac, Linux
Web	REST API, SOAP, AJAX, HTML5, CSS, D3.js	**Libraries**	React, Scikit-learn, TensorFlow, Keras, PyTorch
Frameworks	.NET, Flask, OpenCV, Angular, NodeJS, Hadoop, Kafka	**Databases**	DynamoDB, AWS Timestream, MongoDB, Redis, MS SQL Server
Cloud	AWS Lambda, Pivotal Cloud Foundry, Serverless		

Work Experience

Cumulus Digital Systems, MA, USA — **Software Development Intern (Team size-16)** — May 2022 – Aug 2022

Timeseries Performance Boosting

Highlights: Improved the performance of the client-facing applications by exploiting the timeseries structure of their data and deploying them to AWS Timestream.

Technologies Used: NodeJS, JavaScript, AWS Timestream, AWS DynamoDB, TypeScript, Flow, Serverless, AWS Lambda, AWS CloudFormation, AWS CodePipeline, GitHub Actions, GraphQL, Jest, ESLint

Roles and Responsibilities:

- Improved the performance of client-facing applications by 180% by using AWS Timestream to exploit the timeseries structure of the data and using multithreading and caching in writes and queries.
- Wrote JavaScript code to implement various critical backend services and deployed them to AWS CodePipeline using GraphQL, AWS Lambda, serverless framework and GitHub Actions. Implemented various testing packages using Jest for unit testing and integration testing of the code.

Column Name Matching and Generation

Highlights: Implemented an NLP solution for matching and generating company-based column names for user-defined column names.

Technologies Used: Natural Language Processing, Word2Vec model, LSTM, RNN, Seq2Seq, Transformers, NumPy, Pandas, TensorFlow, Keras

Roles and Responsibilities:

- Implemented a word2vec NLP model using LSTM to match user-defined column names with company-based column names.
- Used a multi-headed attention transformer to implement a Seq2Seq model to generate new company-based column names based on semantics.

Aastha Rehabilitation Center, India — **Senior Manager (Team size-20)** — Oct 2019 – Apr 2021

Highlights: Led a team in this government-funded NGO focused on the welfare of less fortunate in the tribal belt of the state of Jharkhand in India.

Roles and Responsibilities:

- Organized 5 health check-up and dental check-up camps and led the team responsible for rehabilitation of handicapped children.

Dell, India — **Software Development Engineer (Team size-10)** — July 2017 – Sept 2019

Highlights: Worked for the Dell Federal Business Enablement Team that enables the end-to-end fulfilment of orders for US Federal Government.
Achievements: Dell Champions Award
Technologies Used: Python-Flask, Siebel CRM, SOA, Pivotal Cloud Foundry, React, C#, .Net, NodeJS

Roles and Responsibilities:

- Improved performance of middleware by 84% by implementing critical SOA services in Python and migrating them to Pivotal Cloud Foundry.
- Built and maintained a dashboard for automation & analytics of Siebel CRM migration activities using React and NodeJS and deployed it to PCF.

Academic Projects

Distributed Store
Technologies Used: C++, Distributed Systems, Sharding, Load balancing, Multi-Threading, Concurrency
Built a distributed key-value store with a dynamic shard-master and a multi-threaded, concurrent and synchronized architecture.

Photo-Realistic Super Resolution
Technologies Used: Deep Learning, Python, TensorFlow, Keras, GAN, NumPy, SRMAP
Surpassed the performance of traditional deterministic super-resolution methods by proposing a novel Super Resolution MAP generative method.

Loglizer (Log Anomaly Detection Framework)
Technologies Used: Deep Learning, Python, TensorFlow, Keras, CNN, LSTM, NLP, NumPy
Used a CNN and LSTM based model to build an NLP based framework to detect anomalies in logs generated by large scale distributed systems.

Stock Price Predictor
Technologies Used: Deep Learning, Python, TensorFlow, Keras, LSTM, TensorBoard, NumPy
Built an LSTM based model using TensorFlow and Keras to predict the stock prices and used TensorBoard to visualize the results.