Basit Ali Tramboo

Halifax,NS | basit@dal.ca | 9023330055 | basittramboo.github.io | linkedin.com/in/basittramboo

github.com/BasitTramboo| **Open to Relocation**

About

Software developer with 8 years of industry experience and a Master's in Applied Computer Science from Dalhousie University. Experienced in building scalable, cloud-native applications using AWS, Docker, and CI/CD pipelines. Proficient in full-stack development with JavaScript, Python, Java, React/ React Native, and both SQL/NoSQL databases. Passionate about AI, DevOps, and delivering high-performance, real-world software solutions in agile environments.

Skills

Language: Java | Python | JavaScript | HTML | CSS | Object-Oriented programming languages

Frameworks: NodeJs | ReactJS | Express | ReactNative | Flask

Databases: PostgreSQL | MySQL | MongoDB | DynamoDB | Big Data | Distributed computing | ETL

Cloud Platforms: AWS | GCP | Azure

Development Tools: : Git | JIRA | Postman | Visual Studio Code | IntelliJ IDEA

DevOps: | **CI/CD**: GitHub Actions, AWS CodeCommit, CodePipeline, CodeDeploy, ECR, ECS

IaC: AWS CloudFormation (YAML) | **Containerization**: Docker

Work Experience

Sr. Software Development Engineer, Freo Labs – Bengaluru, IND Sep 2016 – Mar 2022

- Progressed through multiple roles over 8 years, in cross functional teams and delivering scalable backend systems, mobile apps, and BI platforms for enterprise clients.
- Architected and developed robust Business Intelligence modules, including custom reporting (P&L, sales analytics, product ledger) and dashboard visualizations for strategic planning.
- Designed and containerized REST-based backend services using Node.js and Docker; integrated AWS services (EC2, SES, SNS) for document generation, alerts, and system automation.
- Delivered features such as purchase order generation (PDF/email), inventory planning, and budget management.
- Engineered algorithms for historical data analysis, enabling generation of actionable insights from sales and inventory trends to support client planning and forecasting workflows.
- Built and maintained Android applications, ensured seamless API integrations and and user interfaces aligned with client requirements.
- Designed and implemented internal tools including a CMS for the company website, an employee management system, and a blogging platform with custom editor and content workflows.

Projects

MailLense – Retrieval-Augmented Generation over Gmail Inbox github/MailLense

- Designed a serverless RAG-based system using AWS to semantically search and summarize Gmail emails; implemented Gmail OAuth, secure token storage, and email ingestion via the Gmail API.
- Built an AI pipeline using Lambda and Amazon Bedrock (Titan & Claude) for embedding generation and answer synthesis; used OpenSearch for vector-based semantic retrieval.
- Deployed a React frontend on S3/CloudFront with secure API Gateway integration; ensured VPC based security, observability via CloudWatch, and compliance with AWS Well-Architected principles.

  Tech Stack: AWS Lambda, API Gateway, S3, CloudFront, OpenSearch, Amazon Bedrock (Titan, Claude), Gmail API, Secrets Manager, VPC, IAM, CloudWatch, React, Python

AI-Powered Document Summarizer– Serverless SaaS Platform github/AISummarizer

- Built a fully serverless SaaS solution for document upload, OCR (Textract), and AI-based summarization (AWS Bedrock), delivering results via SES to user emails.
- Implemented ingestion and generation pipelines using AWS Lambda, S3, and DynamoDB with upload quota enforcement and secure API Gateway integration.
- Deployed React + TypeScript frontend on S3/CloudFront with WAF, and implemented automated CI/CD pipeline using GitHub Actions for frontend deployment.

  Tech Stack: AWS Lambda (Node.js), API Gateway, S3, DynamoDB, AWS Bedrock, Textract, SES, CloudFront, WAF, CloudWatch, CloudFormation, GitHub Actions, React, TypeScript

Adaptive Beam Search – Enhancing Sequence Prediction with Delayed Pruning github/AdaptiveBeamSearch

- Proposed a novel decoding strategy for autoregressive language models that introduces a fixed prediction window before pruning low-probability beams, improving sequence quality in generation tasks.
- Implemented the method in both custom-trained LSTM-based encoder-decoder models and large-scale Transformer-based models (DistilGPT2, GPT-2, GPT-2 Medium); evaluated using SacreBLEU, ROUGE-L, BERTScore, and MAUVE.
- Achieved improved semantic and stylistic alignment in generated outputs on WikiText-103 and WMT14 datasets; highlighted trade-offs between output quality and computational cost.

  Tech Stack: PyTorch, Transformers (HuggingFace), LSTM, GPT-2, DistilGPT2, SacreBLEU, ROUGE-L, BERTScore, MAUVE, WMT14, WikiText-103

Community Smell Detection github/codesmells

- Designed a lightweight Flask backend and HTML/CSS front-end, web application to detect community smells present in GitHub repositories
- Improved the reliability of the code by containerizing the application to be readily deployable.
- Implemented CI/CD pipelines using GitHub actions to readily test and deploy application properly.
- Developed the application while implementing AGILE and TDD frameworks for software development.

  Tech Stack:Flask, Docker, CI/CD, Machine Learning

Cloud-Native Extract Transform Load (ETL) Pipeline

- Designed a cloud-native ETL pipeline using Hadoop and GCP.
- Performed sentiment analysis using distributed systems implementation in Java.

  Tech Stack:GCP, Hadoop, Java

Carz App – Cross-platform Mobile App for Car Discovery

- Developed a mobile-first car discovery app in React Native using Expo, offering search and filter capabilities for specs like engine type, horsepower, and price range.
- Integrated Appwrite BaaS for Google OAuth authentication, data storage, and RESTful API endpoints; implemented secure login, session handling, and real-time car data queries.
- Built modular features: home and explore screens, map integration, animated UI transitions, vibration feedback, and responsive design across iOS and Android devices.
- Implemented optimized rendering via FlatList restructuring to resolve performance bottlenecks in nested scroll layouts, ensuring smooth UX at scale.

  Tech Stack: React Native, Expo, Appwrite SDK, Google OAuth, AsyncStorage, MapView, REST APIs

Education

Dalhousie University, Master of Applied Computer Science Sept 2024 – Jan 2026

- **Coursework:** Cloud Architecting, Cloud Computing, DBMS and Data Warehousing, Deep learning, Recommender Systems, Mobile Development.

IUST, Bachelors in Computer Science and Engineering Aug 2012 – Aug 2016

- **Coursework:** Computer Programming and Methodology,Algorithm Analysis and Design,Software Engineering,Computer Networks, Object Oriented Programming and System Design