

HARSHITH PATIL

☎ 617-860-9421 ✉ harshithptl@gmail.com [linkedin.com/in/harshithptl/](https://www.linkedin.com/in/harshithptl/) github.com/harshithptl

Education

Northeastern University

Master of Science in Software Engineering Systems

Expected May 2026

Boston, Massachusetts

Relevant Coursework: Cloud Computing, Data Structures and Algorithms, Object Oriented Design

BMS Institute of Technology and Management

Bachelor of Engineering in Computer Science

August 2018 – August 2022

Bangalore, Karnataka

Skills

Languages: Java, Python, C++, SQL, JavaScript, HTML/CSS

Databases: PostgreSQL, MSSQL Server, MongoDB, MySQL, Redis, RabbitMQ

Frameworks: Spring Boot, Flask, FastAPI, React, Django, Node.js

Tools/Technologies: Git, JUnit, Sumo Logic, Postman, Confluence, Gerrit, Grafana

Cloud Technology: Linux, Jenkins, AWS, GCP, Terraform, CI/CD

Experience

Gainsight

Software Engineer

February 2024 – July 2024

Bangalore, India

- Optimized bulk data loading performance by 40% using **PostgreSQL's COPY command**
- Streamlined **large-scale data handling** in SQL by implementing batch processing and reducing timeouts by 80%
- Redesigned backend architecture in Spring Boot to support processing of **60M+ records**, boosting efficiency by **35%**

Gainsight

Associate Software Engineer

August 2022 – January 2024

Bangalore, India

- Leveraged **multi-threading** and **async processing** to scale a distributed microservice, achieving low-latency execution
- Engaged **architects, engineers and managers** to transform requirements into scalable solutions for **1000+ clients**
- Led improvements in **hashing, encoding, and ID resolution**, improving **data consistency and security**

Locobuzz

Python Developer Intern

March 2022 – July 2022

Remote

- Boosted dashboard responsiveness by **40%** by developing an object-oriented class for **real-time data processing**
- Built FastAPI APIs that reduced report generation time by **35%**, **supporting dynamic widgets and real-time analytics**

Serri Tech Solutions

Python Developer Intern

August 2021 – December 2021

Remote

- Led the development **20+ REST APIs** using Flask and MySQL, streamlining course management for institutions
- Deployed APIs on AWS EC2, configured S3 buckets, and maintained RDS connectivity, **enhancing system efficiency**

Projects

BudgetBuddy | Java, JavaFX, Oracle SQL Developer

- Developed the reports and notifications screens in JavaFX, contributing to a **30% improvement in user engagement**
- Optimized performance in the DAO layer by unifying connections, **improving query execution time** by 25%
- Resolved UX issues and **optimized user flow** for seamless budget tracking and financial goal management

Bloggity Blog | MongoDB, Express, React, Node.js

- Enabled users to create, view, and delete blog posts via NOSQL databses like MongoDB, handling **1,000+ posts**
- Built a scalable backend with MongoDB, Express, and Node.js, ensuring fast API response times (**within 200ms**)
- Designed a responsive React framework frontend, **reducing page load time by 40%** and enhancing user engagement

Automated Market Forecasting & Trading System | Python, Machine Learning, LSTM

- Led a team of four** to develop a machine learning driven predictive model, achieving an accuracy of 85%
- Engineered LSTM-powered integrations with Angel Broking's SmartAPI for **predictive trading execution**
- Coordinated backend architecture** and team collaboration, ensuring seamless integration with a Flutter frontend

Automatic Number Plate Recognition | Python, HTML/CSS, Django

- Accurately extracted number plates using YOLOv4 with **95%** accuracy, ensuring detection precision
- Built a **custom Optical Character Recognition** module, eliminating dependency on external libraries
- Enabled seamless user uploads and automated number plate recognition via Django with **80%** accuracy