

Prajakta Prashant Dharme

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EDUCATION:

Khoury College of Computer Sciences, Northeastern University, Boston, USA. Jan 2020 – Present
Candidate for Master of Science in Computer Science GPA: 3.95/4.0 Expected graduation: May 2022
Related courses: Algorithms, Program Design Paradigm, Information Retrieval, Web Development, Database Management Systems

Shri Ramdeobaba College of Engineering and Management, Nagpur, India July 2014 – May 2018
Bachelor of Engineering in Computer Science

TECHNICAL SKILLS:

Programming Languages	Java, Python, SQL
Databases	Oracle, Postgres, DynamoDB, AeroSpike, MySQL Workbench, Firebase, MongoDB, RDS
Web Technologies	REST API, Spring Boot, Hibernate, JPA, Node.js, HTML, CSS
AWS Services	S3, Lambda, Glue, Athena, Kinesis, CloudFormation, CDK, SQS, SNS, CloudWatch
Libraries	Pandas, NumPy, Pyarrow, PySpark, Boto3, s3fs, Beautiful soup, Matplotlib
Others	Android development, JUnit testing, Maven, Git, Jenkins, Concourse

WORK EXPERIENCE:

Fidelity Investments, Boston, MA – *Software Engineering Co-op* Jul 2021 – Dec 2021

- Productionizing existing APIs by creating low-level designs for refining and refactoring existing codebase.
- Designed and developed highly flexible and parallel data processing REST APIs with Spring boot, Hibernate, MVC framework, Postgres, JSON response data to analyze various risk scores for 250k+ investment assets.
- Setup JUnit testing for an microservice using PowerMockito, ReflectionTestUtils increasing code coverage to 90%.
- POC on performance comparison for caching solutions on DynamoDB, Postgres, Snowflake and Aerospike.

Amazon Robotics, Westborough, MA – *Data Engineering Co-op* Jan 2021 – Jun 2021

- Designed and implemented Athena Query Cost Analyzer - a cost and data analysis tool to notify clients on unusual querying costs and help identify rogue queries to minimize data access costs. It provided actionable insights on client usage patterns by utilizing python libraries and AWS services like Athena, Glue, CFN, CDK, SES.
- Designed a configurable, low-latency big data transformation solution on real-time robotic data from all North America automated Amazon warehouses and reduced client's data querying time by 75% using pandas, s3fs and pyarrow.
- Orchestrated a POC to analyze AWS cost involving external data access using AWS CloudTrail and Athena.
- Provided on-call support to resolve trouble tickets involving data infrastructure, management, and governance.

Northeastern University, Boston, MA – *Graduate Teaching Assistant for CS5800-Algorithms* May 2020 – Dec 2020

- Mentored a graduate class of 90 students by conducting recitations, tutoring sessions and grading algorithmic solutions.

ZS, Pune, India - *Quality Assurance Analyst* Jan 2018 – Nov 2019

- Scaled API automation framework using NUnit framework to test 80% of APIs reducing regression time to 50%.
- Automated UI testing by scripting in Selenium and Qualitia for 90% of application UI to minimize manual testing.
- Planned and executed regression testing with QA team and delivered 5 releases with < 2% defect leakage.
- Mentored and on boarded junior associates into project team by conducting knowledge transfer sessions.

ACADEMIC PROJECTS:

Crack It Up – Interview Prep Android Application (Android, Java, Firebase) [Video](#) [GitHub](#)

- Designed an engaging Android app with modules, quizzes related to interview topics for users to learn and practice.
- Utilized Android's audio sensor to facilitate practicing behavioral questions by recording and reviewing answers.

Hunt the Wumpus – Classic adventure game (Java, Java Swing, JUnit) [Video](#) [GitHub](#)

- Designed a multi-player, multi-themed, highly customizable and extensible adventure game using MVC, Builder and Adapter design patterns. Created an interactive and user-friendly gaming interface using Java Swings.

Estateside – A real-estate application (React, MongoDB, NodeJS, REST API) [Website](#) [GitHub](#)

- Created a web application using MERN stack for landlord and renters to list, search and book visiting appointments.
- Engaged Zillow public APIs to facilitate location-based search and implemented Google Auth for user session.

Vertical Search Engine (Python, Elasticsearch, Kibana, Beautiful Soup) [GitHub](#)

- Designed a topical web crawler to identify 120,000 documents related to a 'Maritime accidents', rank and create a search engine by using Elasticsearch for document store and Kibana for classical text search.

Tuned – A music application (Java, JPA, Spring Boot, REST API) [Website](#) [GitHub](#)

- Enabled users to search, listen, like a song, create playlists, follow artists and enabled artists to create their own music collection by developing a Spring Boot web application by leveraging Spotify Web Services and Java REST Services.