Hrishikesh Suresh Pradhan

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EDUCATION

Northeastern University, Boston   September 2024 – May 2026
MS, Computer Science   *GPA: 4.0/4.0*

Birla Institute of Technology and Science, Goa   August 2018 – May 2023
MS, Mathematics & BE, Electronics   *GPA: 3.2/4.0*

SKILLS

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

Technologies: Angular, React, Vue, Swing, Ktor, AWS, JIRA, GCP, Kubernetes, Postman, MongoDB, OAuth, ChartJs, ReCharts, ChakraUI

EXPERIENCE

Software Engineer | *Acceldata*   *June 2023 – June 2024*

- Contributed to the core team responsible for building Acceldata's cloud-based Data-Observability Platform.
- Optimized cloud cost and SQL performance by mitigating anti-patterns, reducing spending by 20% and improving query speed by up to 40%.
- Developed a feature using Kotlin and Angular, enabling flexible column selection for data loading in Spark analysis applications, reducing PU usage by 35% and RAM utilization by 50%.
- Engineered robust Role-Based Access Control (RBAC) using OAuth to strengthen security posture and gain granular control over resource access in Snowflake data warehouse.
- Built complex, real-time time series visualizations of costs, usage, queries, and tags using Angular and ChartJs, improving visibility into data access patterns and identifying usage trends.

Software Engineer Intern | *Acceldata*   *June 2022 – May 2023*

- Led a team of 5 interns using an agile workflow to create a full-stack dashboard using Flask and Angular for monitoring AWS usage, cost, and alert tracking, reducing monthly expenses by 25%.
- Enhanced data reliability through the creation of regular CRON jobs to crawl and integrate data from key platforms such as Snowflake, Databricks, and Azure Data Factory.
- Implemented comprehensive end-to-end UI automation testing using the Cypress framework, achieving 100% test coverage and significantly enhancing application reliability.

PROJECTS

Football Tracker   GitHub | Live

- Developed a football tracking application managing multiple leagues, teams, players, sponsors, and games with the help of insightful graphs to visualize data trends using Flask, Angular, MaterialUI and ChartJS
- Designed and normalized a MySQL database, writing stored procedures, triggers and functions.
- Applied machine learning (Random Forest) with hyperparameter tuning to predict match outcomes.
- Deployed the application to AWS, using EC2 and RDS to ensure high availability and seamless user access.

Calendar Application   GitHub

- Developed a feature-rich desktop calendar application using Java following the MVC architecture.
- Built an intuitive and responsive Swing GUI along with CLI mode supporting headless scripts.
- Created import/export functionality utilizing CSV format for cross-platform data portability.
- Added CI/CD pipelines using GitHub Actions and PiTest, ensuring 100% mutation coverage.

Expense Share   GitHub | Live

- Developed a full-stack expense management platform with React, GraphQL, and MongoDB, enabling seamless real-time expense tracking and group settlements for over many users.
- Engineered a responsive, accessible UI with Chakra UI and implemented secure authentication, improving user engagement and cross-device usability.
- Developed GraphQL integration for efficient data fetching using Apollo client and server.

RELEVANT COURSES

Object Oriented Programming, Web Dev, Algorithms, Operating Systems, Artificial Intelligence, DBMS