

ALEEYA MOHAMAD ROKI

Madison, WI 53703 | (608) 358-4316 | aleeyaizzati03@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio Website](#)

EDUCATION

University of Wisconsin-Madison | Madison, WI

September 2022 – May 2026

Bachelor of Science: Data Science and Information Science

- Minor: Computer Science
- CGPA: 3.753

TECHNICAL EXPERIENCE

LeyLine Technologies | Spokane, Washington

June 2025 – August 2025

Data Science Intern

- Built a website chatbot MVP using React for frontend and developed Python backend APIs to process chatbot messages, store structured conversation logs, and make user interactions easier to review and analyze
- Created logging workflows that turned raw chatbot activity into organized datasets in Lark Sheets for monitoring user behavior and product performance
- Designed automation pipelines on n8n using platform-specific APIs to extract, transform and load (ETL) data for automated postings from Google Sheets, improving operational efficiency
- Added data validation and fallback logic to reduce errors and keep chatbot data consistent
- Worked with team members to document data workflows and progress report for easier review and maintenance

Interlinked | Berkeley, California

July 2025 – February 2026

Data Curation Intern

- Performed quality assurance on a 3.05M-row wildfire ignition dataset using Python on JupyterLab, validating duplicates, schema, coordinates, timestamps, and metadata
- Cleaned and standardized environmental datasets from NOAA, NASA, USGS, and Cal Fire for analytics and AI modeling workflows
- Conducted EDA and data quality checks to identify anomalies, missing values, coordinate issues, and data quality concerns across large geospatial datasets
- Created 100 km × 100 km QGIS spatial analysis windows across California to support regional wildfire modeling workflows
- Supported geospatial data preparation using Python, AWS S3, Parquet manifests, and Google Colab to improve dataset readiness for downstream modeling

PROJECTS

Global Happiness Analysis Dashboard | Tableau, Power BI-style KPI Design

March 2026

- Built an interactive Tableau dashboard analyzing global happiness scores across 150+ countries using GDP, regional, and demographic data
- Identified a strong positive correlation between GDP per capita and happiness through scatterplot analysis and trend lines
- Designed KPI cards, geographic maps, and filters to enable intuitive exploration of country-level insights
- Communicated key findings through clean, user-friendly visualizations for non-technical audiences

Wisconsin Dining Relational Database System | MySQL, MongoDB (NoSQL)

October 2025

- Designed and implemented a normalized relational dining database to enable reliable data storage and querying
- Enforced data integrity with primary/foreign keys, CHECK constraints, ENUMs, and composite UNIQUE constraints to prevent duplicates and invalid entries
- Created analytical SQL views with joins and aggregations to surface insights on ratings, cuisine trends, and operating hours
- Migrated relational database concepts into MongoDB by designing NoSQL document structures with embedded arrays and subdocuments for dining hours and reviews

NYC Cab Activity Analysis – Open-Source Project | R, HTCondor

May 2025

- Worked in a team and analyzed 30GB of NYC Taxi data (2015–2025) to identify trends in fare pricing, trip duration, and ride frequency.
- Executed 1,388 parallel jobs using HTCondor, generating 9 analytical reports and a consolidated RDS summary.
- Applied regression models and t-tests to measure COVID-19 impact, showing a significant decrease in trips and a \$5.24 fare increase/trip.
- Identified demand patterns (such as 20% longer trips in Queens) and quantified rush-hour impacts, with trips taking 17% longer during peak times compared to off-peak hours.

SKILLS

- **Technical Skills:** SQL, NoSQL (MongoDB), Tableau, Power BI, Python (Pandas, NumPy), React, R, RStudio, Excel, Git, APIs, JSON, HTML, CSS, Java, JavaScript, C++, WordPress, Google Analytics, Looker Studio, Microsoft Fabric, AWS, QGIS
- **Languages:** Malay (Native), English (Fluent)