

Career Prep Document (CPD_Binayak)

1. Personalized Summary

Results-driven Data Engineer with a Bachelor's degree in Computer Science and hands-on experience in building data-driven solutions using Python, SQL, Java, and Power BI. Experienced in developing data pipelines, optimizing data structures, and creating analytical dashboards to support strategic decision-making. Passionate about leveraging data engineering principles to improve health and wellbeing initiatives through accurate, scalable, and secure data systems. Strong communicator capable of translating complex data insights into actionable recommendations for stakeholders.

2. Tailored Resume – Data Engineer (Global Health & Wellbeing)

Education

Bachelor of Science in Computer Science
Northern Kentucky University
Graduated: December 2025

Technical Skills

- Programming: Python, SQL, Java
- Big Data: Hadoop, MapReduce (Foundational Knowledge)
- Data Visualization: Power BI
- Databases: MySQL, Relational Database Design
- Data Engineering: ETL Concepts, Data Cleaning, Data Modeling
- Tools: Git, Excel, CSV Automation

Professional Experience

IT Student Specialist

- Collaborated with cross-functional university teams to troubleshoot and resolve technical issues.
- Maintained high data accuracy when documenting incidents and resolutions.
- Communicated technical solutions clearly to non-technical users.
- Ensured compliance with data privacy and institutional IT policies.

Python Teaching Assistant

- Mentored students in Python programming, data structures, and problem-solving.
- Assisted in debugging and improving code efficiency.
- Explained complex technical concepts in simplified terms.
- Supported development of foundational data analysis skills.

Selected Projects

Flight Reservation System with Efficient Seat Allocation:

- Designed and implemented a Java-based system optimizing seat allocation using data structures.
- Improved allocation efficiency through use of heaps and linked lists.
- Exported system data for visualization in Power BI to analyze booking trends.

Supplier Performance Tracker (Java + Power BI):

- Developed automated data processing system to track supplier performance metrics.
- Cleaned, transformed, and structured data for dashboard visualization.
- Created Power BI dashboards identifying performance trends and insights.
- Automated CSV exports for efficient reporting workflows.

3. LinkedIn Profile Snapshot

Headline: Data Engineer | Python | SQL | Big Data Enthusiast | Health & Aviation Analytics

Profile Summary: Passionate about building scalable data systems and transforming raw data into actionable insights. Experience in academic and applied projects involving data modeling, visualization, and analytics. Interested in leveraging data engineering to support global health and wellbeing initiatives.

4. Key Achievements

- Built data-driven systems improving operational efficiency in academic projects.
- Automated data exports and reporting processes.
- Created analytical dashboards to visualize performance metrics.
- Mentored students in Python and strengthened collaborative problem-solving skills.
- Demonstrated strong attention to data quality and structured database design.

5. Portfolio / Additional Documents

- GitHub Repository (Data Projects: Flight System & Supplier Tracker)
- Power BI Dashboard Samples
- Tailored Cover Letter for Delta Air Lines – Data Engineer
- Academic Coursework Projects (SQL, Hadoop, MapReduce Foundations)

6. Interview Preparation Notes

- Prepare to explain data pipeline development process (Extract, Transform, Load).
- Be ready to discuss data cleaning, transformation, and validation strategies.
- Demonstrate understanding of data privacy and security principles.
- Practice communicating technical concepts to non-technical stakeholders.
- Highlight passion for global health and wellbeing data impact.