MARK D. CRUSE

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OBJECTIVE

Highly motivated data professional with 10 years of experience in data cleaning, analysis, and visualization. I am seeking a challenging role to leverage my skills in Python, SQL, and visualization tools, to develop data-driven solutions that improve user experience and drive business growth.

COMPUTER SKILLS

- Python
- SQL
- Javascript
- Web development (HTML & CSS)
- Data design
- Tableau
- Github
- QGIS

ACHIEVEMENTS

Led a collaborative effort with diverse stakeholders, including the University of Kentucky Institutional Effectiveness Assessment team, the UK Canvas administration team and the University of Central Florida - Open Source group, to streamline document extraction processes. Collaborated on permissions and flags with the Canvas team and utilized the Python library, CanvasAPI, developed by the UCF Open Source group. **Result:** Engineered a highly efficient and scalable solution, improving the handling of student assignments and enhancing the assessment processes. Demonstrated expertise in bridging internal and external collaboration, showcasing a significant boost in operational efficiency and comprehensive evaluation capabilities.

Effectively executed complex data extraction, transformation, and loading processes using advanced Python and SQL skills, with SAP HANA as the core data source. Designed and implemented efficient ETL procedures with a focus on seamless compatibility with Tableau. **Result**: Processes contributed to streamlined workflows, significantly enhanced data accuracy and accessibility for Tableau-based analytics.

Team technical lead for the implementation of the University of Kentucky Institutional Research and Advanced Analytics first generation of interactive web pages. Coordinated data gathering efforts, designed Tableau workbooks and dashboards, and created Drupal web pages. Organized and created information for project review meetings. **Result:** University of Kentucky student data related to applicants, enrollment, degrees awarded, demographics, and retention, is provided to university stakeholders and the public in an interactive web based environment.

EDUCATION

B.S., Computer Information Systems	1987	Western Kentucky University	Bowling Green, Kentucky
M.S., Digital Mapping	2019	University of Kentucky	Lexington, Kentucky

EXPERIENCE

Independent   **2021 - current**
 Data Analyst/Programmer

Excel in consulting with individuals to deliver actionable insights and data-driven solutions. Notable work has included: utilizing Python to generate portable geospatial data and crafting visualizations through QGIS design; transforming datasets into interpretable insights using Python and Google Data Studio; creating interactive features using nodeJS, Javascript and Docker to create an online data collection form implemented in Google Cloud. These experiences showcase my adaptability and versatility across different roles, emphasizing my proficiency in Python, Javascript, NodeJS, QGIS and online visualization tools for generating valuable insights independently.

University of Kentucky - Strategic Planning & Institutional Effectiveness   **2017 - 2021**
 Business Data Analyst

Provided data solutions to the office and network of college programs across the campus. Designed, implemented, and maintained interactive reports and visualizations using Tableau. Wrote complex SQL query statements for data reporting and designed data structures as needed. Transformed complex data sets into more easily used data for analysis. Produced reports and visualizations to provide valuable insight needed to make business decisions.

University of Kentucky - Graduate School, Lexington, Kentucky   **2015 - 2017**
 Informatics Analyst

Provided data solutions to the Graduate School, senior administration, and network of graduate academic programs across the campus. Led groups in developing solutions to complex problems by providing data related to recruitment, admissions, funding, student success, graduate program quality metrics, and the graduate education strategic plan. Designed, implemented, and maintained interactive reports and visualizations using Tableau. Wrote complex SQL query statements for data reporting and designed data structures as needed.

University of Kentucky Analytics and Technologies, Lexington, Kentucky   **2014 - 2015**
 STEPS Analytics Developer, Advanced Analytics Team

Designed and created Tableau dashboards and workbooks for university stakeholders to consume data related to student enrollment, degrees conferred, retention, and more. Designed interactive web pages embedding Tableau dashboards for consumption by the public on the Institutional Research & Advanced Analytics website. Lead a bi-weekly Introduction to Tableau and data analytics training class. Maintained department Drupal website.

Commonwealth of Kentucky, Frankfort, Kentucky   **2000 - 2011**
 Systems Engineer IT

Team Lead for the Commonwealth of Kentucky UNIX Server Support Team. Managed the daily priorities of team members. Advised administration & state agencies on the procurement and implementation of UNIX systems. Team liaison with state agencies, state disaster recovery team, computer systems security team, systems storage team, and virtual systems team.

 Systems Consultant IT

Supervised the development of in-house computer software development at the Office of the Secretary of State. Recommended, implemented, and managed the offices migration from several physical computer servers to a single physical server with multiple virtual server environments. Participated in the design, development, and administration of agency websites.