REUBEN L. CUMMINGS

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CAPABILITIES:

Data: Extraction, Transformation & Loading (ETL), Integration, Cleansing, Conversion, Monitoring & Alerting

Development: API Development & Integration, Web Application Development, Process Automation, System Interoperability, Fast Healthcare Interoperability Resources (FHIR)

Business Intelligence: Dashboards Development, Data Analytics, Predictive Analytics, Reporting Automation, Data Warehousing

TECH STACK:

Python: Flask, SQLAlchemy, Pandas, BeautifulSoup
JavaScript: Node, Express, D3, Leaflet, Mithril, Lunr, Cypress
Cloud: GitHub, Heroku, DigitalOcean, AWS, Microsoft Azure, TravisCI
Database: SQLite, MongoDB, PostgreSQL, Memcache, Redis
Misc: BASH, SQL

WORK EXPERIENCE:

Nerevu Group   **Peoria, IL**
President & Owner
2014–Present

Nerevu helps organizations uncover the insights hidden in their real-time data.

Global Cycle Solutions (GCS)   **Arusha, Tanzania**
Business Development/IT Manager
2010–2013

GCS was a distributor of technologies for rural villagers.

➢ **Implemented** an inventory management process for the sales team
➢ **Designed** a reporting application to track prospects, opportunities, and sales
➢ **Developed** financial models and business plans to align with expansion strategy

MIDIOR Consulting   **Cambridge, MA**
Business Analyst
2005–2010

MIDIOR is a management consulting and technology services firm.

➢ **Created** a database application to track staffing levels and efficiently allocate resources
➢ **Developed** an automated revenue & expense reporting application
➢ **Built and maintained** customer data warehouses for ad-hoc business intelligence reporting

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CLIENT PROJECTS:
2021–Present

OSF Healthcare—OSF Community Care (OCC) Dashboard

➢ **Designed and built** a Microsoft Power BI dashboard to show progress of the OSF OnCall Connect Pandemic Health Worker Program
➢ **Deployed dashboard** to a custom built web application via Microsoft Azure
➢ **Integrated and analyzed data** from Microsoft SQL Server databases

Prairie Spine & Pain Institute—Medical Record Data Extraction

➢ **Extracted patient documents** (EHR) from Microsoft SQL Server databases
➢ **Integrated** with cloud EHR vendor's API to load legacy patient documents

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CLIENT PROJECTS:
2018–2021

Illinois Central College (ICC)—Workforce Equity Initiative Website
- ➢ **Developed data-driven website** to highlight the Workforce Equity Initiative's impact
- ➢ **Integrated and customized** content management system that powered the website
- ➢ **Created interactive visualizations** to display key performance metrics

Greater Peoria Economic Development Council (GPEDC)—Data Hub Automation
- ➢ **Developed** scripts to fetch economic statistics from government data sources
- ➢ **Created** automated service to keep economic statistics updated with most recent data

2015–2018 **GO2 Foundation for Lung Cancer—Concept to Clinic**
- ➢ **Created** a skeleton web application that would allow a user to apply a specific machine learning (ML) algorithm to analyze computed tomography (CAT) scans of lungs
- ➢ **Reviewed** code contributions to integrate ML algorithms into the web application
- ➢ **Engaged the community** by answering questions and evaluating contributions

United Nations OCHA—Humanitarian Data Exchange (HDX)
- ➢ **Wrote** scripts to automatically add and update external data sources to HDX
- ➢ **Developed** an automated service to monitor the recency of all HDX datasets
- ➢ **Designed and created** interactive visualizations for Oxfam and Red Cross

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EDUCATION:
2005

MASSACHUSETTS INSTITUTE OF TECHNOLOGY **Cambridge, MA**
S.B. Chemical Engineering, Biomedical Engineering Minor
Gates Millennium Scholar*:* full-tuition scholarship awarded to 1000 students across the U.S.

Relevant Coursework: Introduction to Computer Methods, Micro/Macroeconomics, New Enterprises, Dynamics of Biomedical Technologies, Building a Biomedical Business, Principles & Practice of Drug Development, Reaction Engineering, Molecular & Engineering Aspects of Biotechnology, Information Technology in the Health Care System of the Future

LEADERSHIP: Greater Peoria Economic Development Council (GPEDC) Board Member *(2020 – Present),* Peoria Innovation Alliance Board Member *(2019 – Present),* Greater Peoria Data Analytics Community Lead Organizer *(2019 – Present),* Arusha Coders Lead Organizer *(2015 – 2017),* MIT Educational Counselor *(2011 – 2017),* MIT Enterprise Forum Advisory Board Member *(2014 – 2015, 2005 – 2007),* MIT Reunion Committee Member *(2014, 2009, 2007),* MIT Alumni Class of 2004 President *(2004 – 2009)*

OPEN SOURCE: **RIKO:** A Python stream processing engine modeled after Yahoo! Pipes
MEZA: A Python toolkit for processing tabular data
CSV2OFX: A Python toolkit for processing tabular data

INTERESTS: Investing ♦ Traveling (have traveled to 20+ countries including 13 in Africa)