

# Jakub Czachor

czachorjjakub@gmail.com  
(718) 840-9250  
SKILLS

linkedin.com/in/jakub-czachor  
github.com/JakubCzachor

---

**Programming:** Python, SQL, Scala, C++, Javascript, React, HTML/CSS,  
**Software/Technical:** Git, MongoDB, AWS Glue, AWS Lambda, Docker, Jenkins, Linux, OOP  
**Libraries:** pandas, NumPy, Matplotlib

## EXPERIENCE & VENTURES

---

### Data Engineer

May. 2023 – Present

*Optum*

*New York, NY*

- Designed, developed, and deployed **Python** and **Scala**-based ETL processes transforming complex healthcare data into a digestible format, with a focus on data integrity and punctual delivery to stakeholders.
- Facilitated monthly data pipeline operations, de-identifying healthcare data from an extensive data warehouse of over **100 million unique patients**, maintaining patient privacy while ensuring data quality.
- Actively collaborated in the architecture of data pipelines using AWS State Machines, significantly reducing data latency and manual intervention by **35%**, concurrently bringing down data processing costs by **20%**.
- Performed rigorous daily data quality checks and performance testing using AWS Lambda and AWS Glue ensuring pipeline robustness and reliability.

### Software Engineer & Co-Founder

Jan. 2023 – May. 2023

*Rxextend*

*New York, NY*

- Led the creation of a SaaS tool for independent pharmacies, allowing for easy online prescription refilling with SMS notifications, inventory tracking, and prescription logging.
- Designed the front end of the application using React and Figma, resulting in a user-friendly, scalable, and mobile-compatible platform.
- Designed and developed the technical infrastructure for the service, including AWS EC2 and AWS Load Balancer setup, Jenkins CI/CD pipeline configuration, and Docker containerization of a MERN stack web application.
- Conducted testing of the product on-site and identified over a **10%** decrease in turnaround time for prescription refills using Rxextend.

### Software Engineer Fellowship

Jan. 2023 – March 2023

*Headstarter*

*New York, NY*

- Collaborated with a team of 5 software engineers to build full-stack web applications using ReactJS, Javascript, Flask, Google Firebase and MongoDB.
- Applied software design patterns, used Agile methodology, and Git version control to develop software solutions.

### Web Developer

Jan. 2020 – March 2022

*Grand Avenue Pharmacy*

*New York, NY*

- Developed and launched an interactive website, online prescription ordering system, and contact form resulting in call volume decrease of **20%** and an increase of online webpage visit conversions by **30%**.

## PROJECTS

---

### Random Compliment Generator | C++, AutoDesk Inventor, Eagle CAD

- Designed a Random Compliment Generator using C++ and an Arduino microcontroller.
- Improved its usability by designing and fabricating a custom 3D printed stand and PCB using AutoDesk Inventor and Eagle CAD.

### Water Turbidity Analysis | Python, SciPy, Matplotlib, Pandas

- Conducted an analysis of claims regarding a decline in water quality following the shutdown of the Delaware Aqueduct using Python and SciPy, Matplotlib and Pandas packages.
- Processed, analyzed and tested the hypothesis using linear regressions, proving the hypothesis incorrect.

### Text Relevancy Scoring | Spark, MLlib, Python

- Implemented a TF-IDF algorithm using Spark to categorize and identify dominant themes across over 10 million documents for natural language processing (NLP) and content analysis.

## EDUCATION

---

CUNY Hunter College, New York, NY

Aug. 2018 – June 2022

B.A. in Computer Science, Minors in Mathematics, and Physics

GPA: 3.6/4.0

- Relevant Coursework:** Computer Architecture | Operating Systems | Object Oriented Programming in C++ | Software Analysis and Design | Data Structures | Algorithms | Data Science (Python Based) | Cyber Security