

# Zamar Iqbal

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## ABOUT

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Software engineer with a strong educational background and experience in software and data engineering. Traits include strong interpersonal skills and communication ability, attention to fine detail and nuance, and a motivated self-starter work ethic. Hobbies include attending concerts and music festivals, writing and performing music, and reading.

## TECHNICAL SKILLS

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**Languages:** Java, Python, SQL, HTML/CSS, Maple

**Developer Tools:** IntelliJ, Eclipse, Spyder, PyCharm, GitHub, GitLab, Linux bash, JGrasp

**Miscellaneous:** MS Excel, MS Dynamics, VirtualBox, WireShark, phpMyAdmin, Windows, macOS, Linux

## EDUCATION

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### Northeastern Illinois University

Chicago, IL

*B.Sc. in Computer Science, Minor in Applied Mathematics (3.64/4.0 GPA, Cum Laude)*

Aug. 2020 – May 2022

### Oakton College

Des Plaines, IL

*Associate in Science, Math and Computer Science*

Aug. 2018 – May 2020

## EXPERIENCE (RELEVANT)

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### I.T. Systems and Software Development Intern

June 2021 – Dec. 2021

*OccuNomix*

*Port Jefferson Station, NY*

- Worked fully remote to help transition company ERP to Microsoft cloud services and products. Reported to Director of IT and COO.
- Built data visualization dashboards and pipelines using Python in conjunction with MS PowerBI to visualize and recognize trends in company sales and logistics data.
- Trained employees across multiple departments including sales, AP & AR, warehouse, shipping, and logistics to perform their occupational duties in Microsoft Dynamics. Took detailed notes of ERP system errors and inconsistencies during training to report and fix later.
- Interpreted, analyzed, and modified large spreadsheets and administrative paperwork.
- Achievement: Authored 100+ page employee training manual for Microsoft Dynamics for use across several departments.
- Achievement: Remotely set up and troubleshooted MS OneDrive on 60+ employee computers individually and backed up their important business files.

## PROJECTS

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### Wallet Watcher | *Python, PostGreSQL, AlchemyAPI, Heroku*

Nov. 2022 – Present

- Working in a small team to build a bot which listens to Ethereum (cryptocurrency) blockchain logs for transactions by specific wallets and sends notifications to Discord if it is triggered.

## COURSES

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### Computing for Mathematicians | *MATH 340, Northeastern*

Spring 2021

- Built programs in the Maple language to solve problems utilizing higher mathematics such as calculus, linear algebra, differential equations, number theory, and proofs.
- Assignment 11 involved using ordinary differential equations, vector functions, and the Runge-Kutta method to build a program that would simulate shooting a satellite into orbit, incorporating physics constants and equations.

### Artificial Intelligence | *CS 335, Northeastern*

Fall 2021

- Assignment 1 involved teaching myself Python and building a chatbot from scratch. The chatbot, Eliza, uses regular expressions to “understand” and respond accordingly to emotions like happiness and anger.

### Cryptography | *CS 355, Northeastern*

Spring 2022

- Built scripts and programs in Python to encrypt data using cryptography schemes and methods such as AES, SHA, RSA, and others.
- Lab 5 involved building a program that could pull PEM X509 certificate data from NEIU’s website and verify the certificate’s authenticity.