

# Ioannis Kyriazis

FULL STACK SOFTWARE ENGINEER

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## Education

### Worcester Polytechnic Institute

Worcester, MA

BS: Computer Science. Minors: Professional Writing, Electrical and Computer Engineering. GPA 3.42

August 2017 - May 2021

- **Courses:** Software Engineering, Software Security Engineering, Tools and Techniques in Computer Network Security, WebWare, Operating Systems, Embedded Computing in Engineering Design

## Work Experience

### Optum

Boston, MA

Software Engineer

June 2022 - May 2023

- Designed and deployed an Airflow Directed Acyclic Graph (DAG) to orchestrate the data collection process from diverse data stores.
- Utilized Extract-Transform-Load (ETL) techniques to extract data from MySQL, OrientDB, and Elasticsearch databases.
- Enabled stakeholders to make data-driven decisions by providing them with valuable business insights extracted from the processed data.
- Collaborated with onshore and offshore team to rewrite a critical step of the ingestion process for all GitHub repositories in the organization.
- Significantly reduced the processing time from almost a week to only a day.
- Developed a parsing solution to extract critical information, including the package name of Java, Groovy, and C# files.
- Refactored the ingestion process to implement delta processing, ensuring updates only occur for repositories modified since the last run.
- Utilized the Dask library to enable a multi-threaded and multi-node approach for efficient processing.
- Contributed to significant improvements in data processing efficiency and data quality.

Technology Development Program Associate

June 2021 - June 2022

- Utilized the Angular framework with NG Prime to enhance the user interface of a business critical web application.
- Leveraged the Java Spring Boot framework to engineer robust APIs tailored to meet consumer demands and facilitate seamless data exchange.
- Demonstrated adeptness in crafting MySQL commands to effectively query and update the database.
- Employed Jenkins to customize deployment pipelines and integrate essential security measures such as Twistlock and SonarQube.
- Demonstrated proficiency in Docker, enabling the creation of lightweight and scalable containers to encapsulate and deploy APIs efficiently.
- Harnessed the power of Kubernetes to manage deployed containers, enhancing system uptime and performance

## Projects

### Hospital Kiosk Application

Worcester, MA

Worcester Polytechnic Institute

March - May 2020

- Contributed to a ten-person team working in a competition to apply Agile development methodologies and design patterns in Java to create a pathfinding kiosk application, map builder, room scheduler, etc. which won best application in the first and second iterations.
- Gathered software requirements by surveying, brainstorming, creating user stories, scenarios and storyboards.
- Implemented two-factor authentication, RFID card authentication, salt/hashed password storage, and an internal transportation request menu.

### The Maria Amor Foundation: A Case Study on Holistic Healing

Cuenca, Ecuador

Worcester Polytechnic Institute

October - December 2019

- Facilitated weekly sponsor meetings in Spanish.
- Interviewed female victims of domestic abuse in Spanish.
- Optimized interview transcription process.
- Managed and operated filming equipment to capture data from interviews.
- Produced videos that showcase the unique ecologically sustainable aspects of our sponsor.
- Followed Strunk's Elements of Style to edit final report for clarity, concision, and cohesiveness.

## Skills

**Programming** JavaScript, HTML/CSS, Python, Java, SQL, C/C++, C#, Arduino, Verilog, Racket.

**Technologies** Git, Linux, Shell (Bash/Zsh), Angular, React, React Native, Docker, K8s, Express, npm, NodeJS.

## Languages

**English** Native proficiency

**Greek** Professional proficiency

**Spanish** Intermediate proficiency