

# Edward Cerverizzo

LinkedIn: <https://www.linkedin.com/in/serverizzo/>

Phone: 516-514-5934 Email: [edward.cerverizzo@gmail.com](mailto:edward.cerverizzo@gmail.com)

Portfolio: [serverizzo.github.io](https://serverizzo.github.io) GitHub: [github.com/serverizzo](https://github.com/serverizzo)

## Objective

Seeking employment as a senior software engineer in Full Stack, Site Reliability or related fields

## Employment History

### Innovation Lead & Full Stack Engineer/Site Reliability | General Motors April 2021 – August 2024

Maintained, upgraded, and developed auxiliary systems to support 20+ teams across 6 Apache Pulsar clusters servicing 150+ billion messages a day (~1 petabyte of data per day)

- **Innovator & Project Lead | Automated Onboarding:** Reclaimed 96% engineering hours designated for toil (or 1.5 full time employee's hours) via a full stack web application
  - React front end implemented adhering to company UI standards. Built with MUI, react-hook-forms, OpenID (OAuth2)
  - Designed and managed a PostgreSQL database to capture platform and customer data. Managed migrations, and implementing cascading edits, and trigger functions
  - Implemented a Flask back end to modify the PostgreSQL data base and utilize the Apache Pulsar REST API. Built with SQLAlchemy (ORM library) and Requests library
- **Client Education and Empowerment:** Educated customers by creating a video series, road maps, and other documentation on support processes, onboarding, Push to Production (P2P), and maintenance after deployment
- **Sync Report:** Built a python script to validate all pulsar clusters against a PostgreSQL database and offered remediation through a daily email. Built with Flask, SQLAlchemy, Jinja2. Triggered through Autosys
- **Backlog Monitor:** Designed and implemented an email notification system to reduce incidents and data loss. Built with Python leveraging Prometheus and triggered through Autosys (email formatted with Jinja2)
- Modified Linux Shell Scripts to self heal Apache pulsar services when reported down

### Adjunct Lecturer | Queens College

January 2020 – May 2020

- Taught Object-Oriented Programming in C++ (OOP, pointers, operator overloading recursion)
- Responsibilities included reviewing code, designing tests, and inspiring students
- Developed a basic website and video series to reinforce lectures (link to YouTube on LinkedIn)

## Education

Queens College | New York, NY

Graduated: December 2020

M.A. in Computer Science

GPA: 3.30

Cortland State University | Cortland, NY

Graduated: December 2016

B.S. in Exercise Science

GPA: 3.32

## Volunteering

### Be A Good Egg | National Audubon Society

June 2019 – August 2019

- Promoted awareness of endangered nesting shorebirds
- Educated, advocated and collected signatures for local government funding

## Skills

Languages: Python, JavaScript, Postgresql, C++

Technologies & Framework: Apache Pulsar, React.js, Flask, Docker/Kubernetes, Prometheus/Grafana, Azure CICD pipelines

Writing: Wrote a scholarship letter for one of my students that won a \$3,000 scholarship

## Other Interests

Learning Spanish, learning about nature, car camping, gaming/streaming on Twitch, running