

# Gwen Whelan

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## Skills

- Full-stack software engineering in a wide range of languages
- API design and testing for libraries and RESTful web services
- Debugging and rehabilitation of derelict and/or haunted codebases
- General-purpose and domain-specific language design and development
- Functional and relational programming

## Languages, Platforms & Tools

- JS/TypeScript, Ruby, Python, C, Rust, Lisp, Haskell, Java, Scala, Go
- SQL, GraphQL, HTML, CSS, Rails, Node, Express, React, Redux, Akka
- Git, GDB, Vim, Bash, Linux/Unix, AWS, GitHub

## Experience

**Oso Security LLC**, New York, NY

8/2021 – 6/2022 : Software Engineer

- Developed Polar, a Prolog-like relational language written in Rust
- Integrated with 6 host languages: Rust, JS, Go, Java, Python and Ruby
- Produced example applications using Node, React, Django and Rails
- Led a rewrite of Polar for Oso Cloud, reducing code size by ~30x
- Architected a portable API for fast relational DB/ORM integration

**Perelandra Natural Food Center LLC**, Brooklyn, NY

9/2017 – 7/2021 : Pastry Lead

- Produced 100s of units/day of muffins, cookies, and other desserts
- Created delicious new recipes using organic plant-based ingredients
- Cleaned and maintained all equipment and ordered supplies

**Sefaira Inc.**, New York, NY

3/2014 – 10/2015 : Software Engineer

- Crafted green building design tools using Scala, JavaScript and Ruby
- Designed services for daylight visualization and HVAC energy analysis
- Developed user interfaces to simulation services with Bootstrap
- Deployed and managed message queue-based microservices on AWS

## Education

- B.A. Math, 2012, CUNY Brooklyn College, Brooklyn, NY
- A.S. Math, 2010, CUNY BMCC, New York, NY