

Leonora Tindall – Web and Systems Software Engineer

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Education

Beloit College, Beloit, WI – *BA in Computer Science* (August 2016 – May 2020)

Graduated *summa cum laude*. Focus on computational models, algorithm analysis, and engineering practices. Other coursework included creative writing, rhetoric, philosophy, and sociology.

Experience

CancerIQ, Inc., Chicago, IL – *Software Engineer*

August 2020– Present

- Developed clinical software in a microservice-heavy environment with a small group of engineers.
- Designed and implemented graph algorithms to search and analyze health data using the Rust language.
- Designed and implemented a flexible, performant multi-language cancer risk analysis system.
- Worked with, integrated, and reimplemented legacy Ruby, C, and R codebases into a modern Rust service.

Freifunk, Berlin, Germany – *Systems Software Engineer, Contract*

May 2019 – June 2020

- Developed a greenfield telecommunications project in collaboration with a global remote team.
- Designed and built a testing framework for eventually consistent systems.
- Designed and built ergonomic and easy-to-use APIs using Rust’s powerful static type system.

CancerIQ, Inc., Chicago, IL – *Software Engineering Intern*

May 2018 – August 2018

- Created a monitoring and alerting system to ensure uptime of a large Kubernetes deployment.
- Reduced search latency in form autocompletion to sub-10ms with a Rust trie implementation.

Beloit College, Beloit, WI – *Volunteer Full Stack Developer*

September 2017 – May 2019

- Developed front-end, back-end, and database components of the [Open Energy Dashboard](#).
- Built and tested a high-capacity API for data transfer between measurement devices and PostgreSQL.
- Performed user experience testing with A/B tests and in-person interviews to improve usability.
- Refactored a large React.js codebase to significantly improve developer productivity and performance.

güdTech, Inc., San Diego, CA – *Software Engineering Intern*

May 2017 – August 2017

- Built developer productivity tooling for a team of engineers working in a service oriented architecture.
- Implemented command line tools using Go, working with the internals of Docker and Docker Compose.
- Worked with senior engineers to orchestrate onboarding and automated testing of microservices.

Skills

- Programming languages: Rust, Python 3, JavaScript, TypeScript, Go, Ruby
- Technologies: PostgreSQL, Express.js, Rocket.rs, Nginx, React.js, Flask, Ruby on Rails
- Engineering: test-driven development, advanced version control workflows, code review techniques
- General skills: rapid learning, knowledge management, time management, binary reverse engineering
- I have used Linux on the desktop for over a decade, and use a personal Linux server
- I am passionate about high quality documentation and empathy in teaching and expository materials

Publications

Programming Rust, 2nd Edition – A textbook on the Rust programming language’s 2018 edition.
With Jim Blandy and Jason Orendorff.

Projects and Recognition (these and many more at nora.codes/projects)

Open Energy Dashboard – Energy data analysis application built with Node.js, React.js, and PostgreSQL.

Featured on Hackaday for my Linux x86_64 binary reverse engineering tutorials and Geiger counter project.