

Theron Boerner

FULL-STACK SOFTWARE DEVELOPER · SITE RELIABILITY ENGINEER

5035 S East End Ave Apt S3509, Chicago, IL 60615

📞 (+1) 512-626-7620 ✉️ theron@theronb.me 🏠 <https://theronb.me> 🐙 [hunterboerner](#) 🌐 [Theron Boerner](#)

Computer Science graduate from University of Chicago with experience at 5 internships building scalable web applications and distributed systems. Looking for an entry- or mid-level programming position.

Education

University of Chicago

BS In Computer Science

December 2025

Experience

Open Source Contributor

Austin, TX and Chicago, IL

VARIOUS PROJECTS

2011-present

- Built a continuous integration server in Go and Elixir.
- Created an IPython notebook for crop modeling using weather patterns.
- Implemented bug fixes in involving terminal capabilities in a VM orchestration tool (HashiCorp Vagrant).
- Contributed to Elixir and Nx libraries.

Software Engineer Consultant

Chicago, IL

GREAT POINT CAPITAL

June 2022 – October 2022

- Implemented off-site backup solution and Dell OpenManage Enterprise enabling the business to avoid downtime by replacing faulty components
- Architected greenfield storage and computer infrastructure to replace legacy large RAID arrays.
- Built full-stack backtesting application (Elixir, TypeScript, React, Redux, Python) for parameterized SQL queries and Pandas data manipulation to overcome limitations of PowerBI.

Software Engineer

Chicago, IL

PACKWARD LABS (STEALTH STARTUP)

July 2021 – June 2022

- Architected real-time polling system using React, Redux, Elixir Phoenix Channels (WebSockets), and PostgreSQL handling dozens of concurrent users on GCP micro instance
- Converted application to SPA, achieving sub-100ms response times for all UI interactions
- Developed production deployment architecture reducing CPU usage by 5-10%

Software Engineering Intern

Austin, TX and Chicago, IL

PACKLANE

Summer 2017, 2018, 2019

- Designed plots using DataDog to focus engineering efforts on optimization, eliminating 4k queries from a single page in the process
- Advised three junior developers on questions about the Elixir language or functional programming in general
- Built an internal task-queuing system leveraging PostgreSQL row-level locking + **SKIP LOCKED**, eliminating idempotency issues.
- Authored tests for said system which became the most covered module of any part of the application with over 95% coverage
- Designed and implemented software independently
- Learned SCRUM principles

Software Engineering Intern

Austin, TX

SPICEWORKS

Summer 2014, 2015

At age 15, became the company's first full-time security contributor; discovered and patched 4 zero-day vulnerabilities and analyzed 20+ security issues.

Software Engineering Intern

Austin, TX

THE HYBRID GROUP

Summer 2014

- Implemented RS232 FFI interface in Ruby, eliminating flaky compilation step for Artoo gem installation
- Developed effective remote collaboration and communication practices

Skills

Languages & Frameworks Elixir (Phoenix, LiveView, Ash, Ecto, OTP), TypeScript, JavaScript, React, Redux, Python, Ruby on Rails, SQL

Databases & Storage PostgreSQL, Ceph, RAID configurations

Infrastructure & DevOps Kubernetes (k8s), Ansible, Prometheus, Grafana, MaaS, GCP, DataDog, Git, GitHub Projects, Jira, AWS, Jenkins, GitHub Actions, Docker.

Practices & Methodologies Agile/SCRUM, Full-Stack Development, Real-time Systems, WebSockets, Test-Driven Development, Performance Optimization

Systems GNU/Linux, Arch Linux, UFW, iptables/netfilter, Wireshark.

Projects

Custom ERP

ENTERPRISE RESOURCE PLANNER FOR PERSONAL HOBBIES 2025

- Developed full-stack ERP system to manage personal hobby projects, demonstrating business logic implementation.

Garden Notebook

TOOL FOR SCHEDULING PLANTING 2024

- Created signal analysis tool applying data science techniques to optimize garden planting schedules.

Nx Signal

SIGNAL PROCESSING LIBRARY IN ELIXIR December 2024

- Implemented convolutions and Lambert ω for Elixir-based signal processing library (elixir-nx/nx_signal).

Rabbit-CI

CONTINUOUS INTEGRATION SERVER WRITTEN IN ELIXIR/OTP 2016—2019

- Built Elixir/Phoenix continuous integration server with RabbitMQ + Go workers; GitHub stars: 33.