

# Robert Pirtle

Software engineer who enjoys solving meaningful, challenging problems with secure, agile infrastructures in an ethically-positive environment.

## SOFTWARE ENGINEERING EXPERIENCE

### Tozny | Senior Software Engineer

AUGUST 2021 - present | Remote with office in Portland, Oregon

- Architected an upgrade to identity provider product to facilitate multi-party controlled groups and privileged access management
- Added WebAuthn multi-factor authentication to identity provider product. Owned the feature across the stack; managed milestone delivery; led three developer team & reported to stakeholders
- Designed & implemented extensible APIs in Golang
- Developed a plugin system for managing group membership through third party applications & integrated group access requests with Jira
- Mentored junior devs & championed a spirit of refactoring to continually improve code health, maintainability, & readability

### EnergyRM | Backend Engineer

AUGUST 2020 - JULY 2021 | Remote

- Created backend for early-stage startup in clean energy fintech sector
- Enhanced patented thermodynamic modeling engine with improved data aggregation & new energy sources for predicting energy usage
- Owned GraphQL API schema design & TypeORM database entities in Postgres with Typescript. Established workflows for communicating significant changes to the whole team & establishing buy-in

### IGNW | Software Engineering Consultant

APRIL 2020 - JULY 2020 | Remote

- Developed a progressive web application written in Typescript & React on the Azure Cloud as part of a small, Agile team. Application was a inventory management solution for a Fortune 25 company
- Owned the image & document management infrastructure: Backend API microservice architecture in NodeJS & Express interfacing with Azure Blob Storage & CosmosDb (mongodb)

### Performance Logic | Applications Engineer

MARCH 2017 - MAY 2019 | Portland, Oregon

- primarily coding in PLScript, a scripting language we wrote and maintained in C

- Development lead on hospital-auditing data collection and reporting
- Integrated and subsumed a custom tool into a new & configurable solution; ~30% of the value of one of our largest contracts
- Implemented report caching with SQLite, increasing load speed >100x
- Designed and built password reset feature, automatically resolving 25% of client service interactions, ~\$75k/year in opportunity costs

Location: Portland, Oregon

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Website: [robert.pirtle.xyz](http://robert.pirtle.xyz)

Github: [@pirtleshell](https://github.com/pirtleshell)

## EDUCATION

B.A., Physics with honors,

*Cum Laude* & Class

Commencement Speaker

Mathematics Minor

Galactic Astrophysics Thesis

Lewis & Clark College, 2014

Portland, Oregon

## BACKEND & SERVER ADMINISTRATION

Cloud Infrastructure: AWS (ECS, Fargate, lambda, S3, RDS) & Azure (CI/CD pipelines)

Golang APIs & SDKs, Terraform

NodeJS / Typescript / Javascript

Python data analysis & plotting

Serverless & static generators

Docker, Kubernetes, Jenkins,

TravisCI, Github Actions

Admin tasks (bash, cron, ssh)

## DATABASE INFRASTRUCTURE

PostgreSQL, MongoDB, Kafka, Redis, GraphQL, MySQL, sqlite3, Oracle, other NoSQL solutions

## TESTING & CODE QUALITY

Golang (unit & integration testing), Javascript/Typescript (mocha, jest, eslint, prettier), Python (pytest), custom languages, OpenAPI, RAML

## FRONTEND MANAGEMENT

React.js, NextJS, Gatsby, Vue.js, Angular.js, MaterialUI, CSS3

## FUN FACTS

[A Cappella](#)

Fluent in Spanish

I'm an Eagle Scout.