

Robert Pirtle

Full-stack-leaning-backend engineer who likes solving meaningful problems with secure, agile infrastructures in an ethically-positive environment.

SOFTWARE ENGINEERING EXPERIENCE

EnergyRM | Backend Engineer

AUGUST 2020 - PRESENT | COVID remote from Portland, Oregon

- 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
- Managed AWS infrastructure & bug report triage. Published GUI for viewing Redis job queue with a Google SSO authorization flow
- Developed full-stack an encrypted URL-signing pattern for document uploads in S3 with drag-&-drop powers on the frontend in React
- Integrated with 3rd party sources for importing building & utility bill data, calculating geographic energy rates, & determining weather
- Championed a spirit of refactoring to continually improve code health, extensibility, maintainability, & readability

IGNW | Software Engineering Consultant

APRIL 2020 - JULY 2020 | Portland, Oregon

- 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)
- Interfaced directly with clients: Demoed progress to project stakeholders; Clarified & disambiguated business requirements
- Acted as point-of-contact for technical support of client's development team for cloud environment pipelines & integration

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
- Mentored new developers and documented language & API features

Location: Portland, Oregon

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Website: 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:

Azure & AWS (ECS, Fargate, S3)

NodeJS / Typescript / Javascript

Python data analysis & plotting

Serverless & static generators

Docker, Apache, Nginx

Admin tasks (bash, cron, ssh)

FRONTEND MANAGEMENT

NextJS, Gatsby, React.js, Vue.js,

Angular.js, CSS3 (flexbox, grid),

CSS-in-JS

DATABASE INFRASTRUCTURE

PostgreSQL, MongoDB, Redis,

GraphQL, MySQL, sqlite3,

Oracle, other NoSQL solutions

TESTING & CODE QUALITY

Javascript/Typescript (mocha,

jest, eslint, prettier), Python

(pytest), custom language & API

testing, OpenAPI, RAML

FUN FACTS

[A Cappella](#)

Fluent in Spanish

I'm an Eagle Scout.