


# John Pribyl

## Rubber Duck

I am a physicist gone developer who knows how to solve problems. My tutoring background helps me explain solutions to colleagues and clients. I love using math at work and automating the boring stuff.

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## EDUCATION

### Montana State University

BS, Professional Physics - Spring 2018

GPA: 3.95

## WORK EXPERIENCE

### Triple Tree LLC

2019

TT is a small software company that works to build business solutions from scratch.

#### Full Stack Software Developer

- Collaborated with client to define requirements
- Researched, Designed, & Implemented:
  - OAuth2 protocol for user authentication
  - App wide email automation logic
  - Automated analytic reports from scratch
  - Two video recommendation engines
  - Canary Releases on AWS
  - Distributed load tests on AWS
- Wrote a proof of concept sentiment analysis script
- Performed CI/CD with Circle
- Published an open source NPM package

### The Business Garage

2018 - 2019

TBG is a software firm specializing in web development that helps build and launch software solutions for startups

#### Junior Software Developer

- Collaborated with coworkers to define requirements
- Managed backend deployments for a production app with 50K users
- Researched, Designed, & Implemented:
  - Push notifications through a redis queue
  - A live updating analytic dashboard
  - An admin dashboard
  - Content caching to reduce db stress
  - Distributed load testing on AWS
  - Third party virtual credit card integration
- Managed priorities while working on 3 separate apps

### LIGO Scientific Collaboration

2013, 2016 - 2018

LIGO does research in relativistic astrophysics and gravitational theory as part of the global collaboration to study ripples in the fabric of spacetime.

#### Researcher

- Applied for, and received grant funding
- Wrote deep neural networks for data classification
- Extracted information from large amounts of noise
- Built mathematical models of neutron stars
- Used models to test Einstein's theory of gravity

## TECHNOLOGIES

### Languages

Python, Javascript, Bash, Mathematica

### Database Managment

MySQL, MariaDB, PostgreSQL, SQLite, RethinkDB

### Backend Frameworks

Adonisjs, Hapijs, Node, Django

### Frontend Frameworks

React, Redux, D3, Bootstrap, Bokeh

### Data Libraries

Pandas, Numpy, SciPy, SKLearn, Tensorflow, Keras, BeautifulSoup, Selenium, NLTK, Matplotlib, Seaborn, Ipython, Jupyter

### \*Ops

Git, Docker, Kubernetes, AWS, Heroku

### Cloud Based

Lambda, CloudFront, S3, CloudWatch, Route 53, IAM, EC2, EBS, RDS, API Gateway, Heroku Redis, Papertrail, Heroku Scheduler, Firebase Cloud Messaging

### Tools

Vim, VSCode, Arch Linux, I3WM, Guake Terminal, Ranger, Xfce, Dmenu

## OTHER EXPERIENCE

### Grand Canyon Rafting

- Successfully led a 3 week, unguided raft trip
- Planned all logistics for 16 people
- Communicated with outfitters and the park service
- Safely rowed a raft down 280 river miles
- Did not run out of food

### Teaching & Coaching

- 8 years of teaching and coaching experience
- Ages from 5 to 50 years
- Math and Physics at a college level
- Teachers assistant at a Montessori School
- Youth soccer and summer camps

## INTERESTS



Climbing



Math



xkcd



Vonnegut