


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

March 2019 - August 2019

TT is a software firm specializing in web development

Full Stack Software Developer

- Contributed to the web app behind the COMMIT foundation's veteran transition program
- Collaborated with client to define requirements
- Researched, Designed, & Implemented:
 - React components to meet frontend needs
 - Redux dispatches to control state & flow
 - OAuth2 protocol for user authentication
 - App wide email automation logic
 - Automated analytic reports from scratch
 - Two video recommendation engines
 - Canary releases & distributed load tests
- Wrote a proof of concept sentiment analysis script
- Performed CI/CD with Circle
- Published an open source NPM package

The Business Garage

February 2018 - March 2019

TBG is a software firm specializing in web development

Junior Software Developer

- Contributed to the PintPass brewery finder app, Priority Zones credentialing platform, and Stadium Experience gameday experience app
- Researched, Designed, & Implemented:
 - Push notifications through a redis queue
 - An interactive analytic & administrative dashboard
 - Content caching to reduce db stress
 - Third party virtual credit card integration
 - Distributed load testing on AWS
- Managed backend deployments for a production app with 50K users

LIGO Scientific Collaboration

2013, 2016 - 2018

LIGO does research in relativistic astrophysics and gravitational theory as part of a global collaboration.

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 Science

Pandas, Numpy, SciPy, SKLearn, Tensorflow, Keras, Beautiful Soup, 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, Visual Studio Code, 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