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