

Nathaniel Brown

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(603) 729-6582

Education

- Udacity Nanodegree, Artificial Intelligence** 2017-2018
University of New Hampshire, B.S. Mechanical Engineering 2011 - 2015
- Received Tyco Industry Scholarship, covering tuition, room, and board for four years. "The Tyco Scholars Fund supports outstanding students in the physical and engineering sciences"
- Hanover High School** 2007-2011

Experience

- BlueCargo Software Engineer** Apr 2021 - Jul 2021
BlackFly Software Founder Sep 2019 - Apr 2021
- Solo-developed a complete GPS based truck delay-tracking application
 - Made use of MapboxGL, tile server, TimescaleDB, PostGIS, FastAPI, Vue.js+Typescript
 - Sold to Envase Technologies
- Envio Director of Engineering** Mar 2018 - May 2019
- Managed a team of developers building an AI dispatching solution for intermodal trucking
 - Developed much of the core planning algorithm and code, including routing and scheduling
- Self-Employed Software Consultant** Jan 2016 - Feb 2018
- Experienced at diving into existing codebases and learning different development styles
- Profit Tools Software Engineer** May 2015 - Dec 2016
- Re-Architected a commercial solution for scraping shipping container information
 - Built and maintained systems processing \$500K+ of fuel transactions per month

Skills

Engineering Management

- Confident vetting programming candidates for technical skills and attitude
- Encourages honesty, open communication, initiative and personal responsibility
- Maximizes developer efficiency with automated code quality, testing, and deployment tools
- Excellent scoping and communication skills

General Programming

- Expert level Python; Proficient in Javascript
- Solid foundations in testing, software architecture and software engineering

Web Development and DevOps

- Full stack development with Python frameworks, SQLAlchemy and Vue.js+Typescript
- Excellent DevOps skills (CI/CD, Kubernetes, Pulumi, various clouds)

Data Science

- Comfortable using the Python data analysis stack (Pandas, NumPy, Matplotlib, Jupyter etc.)
- Exposure to machine learning and other AI techniques (Scikit-Learn, Keras)

Activities and Projects

- UNH Crew Team** 2011-2015
Wild Books Launched Used Textbook Company Spring 2014 - Spring 2015
- Generated revenue of over \$70,000
 - Built pricing algorithms, POS, and inventory management system using Python