Jeff Newburn

8760 Quintane Ln● Las Vegas, NV 89123
Phone: 702.767.6050 ● E-Mail: jeffnb@gmail.com

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Objective

Software development manager and backend developer constantly seeking new and interesting groups to work with. Always hoping for something fun and a good team.

Experience

Backend Instructor - The IronYard   June 2015 – Present

In charge of teaching groups of non-programmers to become junior level developers in an intensive 12 week, full time program. Topics include:
- Basic python language including OOP concepts
- Django web framework
- Full, secured rest frameworks for consumption by front end AJAX based systems
- Data Science, Data Analytics and machine learning concepts
- Postgres, SQL and relational database concepts
- Continuous deployment using TravisCI and Heroku
- Full EC2 manual deployment processes

Head of Engineering - Shift   December 2013 – May 2015

Responsible for leading both software and hardware engineering efforts for a ride share mobility company which in included 4 types of vehicles as well as a bike share integration. The company is designed to allow members to easily get a vehicle on demand, which is appropriate for their needs.
- Directed hardware development of a home grown system to control vehicles through their built in CAN bus.
- Worked with outside consultants to help deconstruct instructions for controlling several make and models of vehicles
- Managed team of 3 mobile developers, 4 software engineers, 1 systems operator, 3 contractors, a designer and a data scientist
- Architected microservice based layout for technology stack using a mixture of Ruby on Rails and Java with a backend of rabbitMQ, postgres and redis.
- Designed and developed a vehicle operations system to automatically take input from vehicles in a fleet and translate them into tasks for operation staff
- Helped develop AWS based architecture and continuous integration services using docker and git.

Acting CTO - GreenOurPlanet   2012 - Present

As a contractor, developed a full featured crowd funding site (Python/Django) including Paypal and Stripe processing to help green projects including school gardens receive funding.

Site: http://www.greenourplanet.org

The Professor/Development Manager - Zappos   March 2012 – December 2013

Was tasked with building and managing a department responsible for both training and cultural development within the technology organization.

- Development of external training program to help grow engineers

- Creation of classes to enhance abilities of employees as well as cross train

- Evolving and formalizing mentorship programs for technical teams

- Engineering web applications for training in Java, Ruby and Python

- Exploration of emerging AWS cloud technologies for training systems

- Responsible for managing 2 teams of java engineers handling all product pages for Zappos and 6pm

Team Lead Search and Discoverability - Zappos   September 2008 – March 2012

Lead team of engineers in development of discoverability back end systems for 6pm.com and Zappos.com

- Managed team of 4 java software engineers

- Served as team software architect

- Managed search indexing systems utilizing Apache Solr/Lucene and custom data conversion system

- Maintained 99.99% uptime and latency service level agreements of under 100 milliseconds at 500 rps

Software Development Manager - PartnerWeekly July 2005 – August 2008

Oversee software development as well as work with business side to assess needs and resource allocation.

- Managed 2 teams of 4 php engineers

- Responsible for affiliate management system

- Created reporting system for company metrics reducing reporting time by up to 45 minutes

- Managed team responsible for automotive loan system

Education

Bachelors – Computer Science   December 2001