

# Barry Lockwood

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[github.com/blockwooddev](https://github.com/blockwooddev)

Seeking a full-time position in which I can challenge myself and utilize my experience as a web developer and creative coder.

## Skills:

### Server Side:

Python, Flask, SQLAlchemy, Alembic, Jinja2, NodeJs, ExpressJs, Sinon/Chai/Mockery, MySQL, PostgreSQL, Java, Java Servlets/Portlets, WSDLs, PHP

### Client Side:

HTML/CSS, Bootstrap, AngularJs 1, Rune.js, ActionScript/Flex

### Development Environments:

Eclipse, Adobe Flash Builder, PyCharm

### Other Tools:

SQL Workstation, virtualenv, Maven/Archiva, PyPI, Grunt, Bower, npm, Subversion, Mercurial/hgflow, Git, TortoiseSVN/Hg/Git, SourceTree, Heroku, Jenkins, WinSCP, puTTY, dbVisualizer, SoapUI, VMWare vSphere, Twitter API, Arduino

### Methodologies:

Agile, MVC, CMMI Level II

### Certifications:

Security+, Linux+

## Experience:

Software Engineer (2017-present)

Kitu Systems

- Developed NodeJs-based web applications using ExpressJs, AngularJs 1, Bootstrap, and MySQL
- Developed a NodeJs HTTPS/TLS proxy server
- Wrote and maintained unit tests for most of the code I developed.
- Was involved with the design of multiple projects.
- Gained an understanding of the SEP specification.

Software Engineer (2011-present)

KAB Laboratories, Inc.

- Developed Python-based web applications using Bootstrap, AngularJs 1, Flask, SQLAlchemy, and Alembic
- Developed additional applications using Flex/Actionscript, Java, Servlets, MySQL, Javascript, and HTML
- Worked in teams that complied with CMMI level II and followed Agile development principles.
- Used version control systems such as Mercurial and Subversion
- Performed system administrative duties to deliver virtual machines and set up networks between them.
- Gathered and recorded requirements for projects, acted as Requirements Lead for one project
- Did pre-release testing and debugging, and wrote informal and formal test cases for the software listed above.

Research Assistant (2010-2011)

San Diego Supercomputer Center

Southern California Earthquake Center

- Wrote programs in Fortran to perform parallel programming calculations with MPI to process simulation output text files and generate new simulation data.
- Worked with a coworker to write scripts in MATLAB and a program in CUDA to process simulation outputs

Web Developer (2009-2010)

San Diego Supercomputer Center

Documentation Group

- Worked on a team of 4 to convert PHP pages to Java Portlets for a Liferay Portal Server, some of which gathered and displayed information from a MySQL database

## Education:

Bachelor of Science, Computer Engineering, Minor in Music, June 2011

University of California San Diego

**Projects:**

Inflorescent Crescendo – installation piece in which audience members can interact with plants in order to control a generated piece of music. I created this with a partner using Pure Data, Processing, and Arduino.

Tweet and Draw – Node.js twitterbot that follows directions in tweets to create simple generated art. Online at [@tweetanddraw](https://twitter.com/tweetanddraw).