

# Kenny Ballou

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## PUBLICATIONS

### BOOKS

Learning Elixir, Packt

### PAPERS

OpenCUDA+MPI, BSU, SRI

## SKILLS

### PROGRAMMING

Elixir/OTP • Python • Java • Erlang/OTP  
C/C++ • C# • Go • Bash • JavaScript

### TOOLS/OTHER TECHNOLOGIES

GNU/Linux • Git •  $\text{\LaTeX}$  • Markdown  
Mercurial • GNU Make • Maven • Emacs  
Vim • IntelliJ

Amazon Web Services • PostgreSQL  
Hadoop • Spark • Storm • Kafka

## LINKS

Github:// [kennyballou](#)

Bitbucket:// [kballou](#)

## EDUCATION

### BOISE STATE UNIVERSITY

APPLIED MATHEMATICS, B.S.

December 2014

Student Research Initiative (SRI)

Fellowship Recipient (2013)

## COURSEWORK

### UNDERGRADUATE

Partial Differential Equations

Data Analysis

Graph Theory

Parallel Computing

Numerical Analysis I

## CERTIFICATIONS

CompTIA A+ • CompTIA Network+ •

CompTIA Security+

## NOTABLE MENTIONS

Sun Valley Ski Education Foundation

- National Bronze Medalist  
Open-Mens Half-Pipe (2009)
- Three time invitee (Project Gold) US  
Olympic Snowboard Team Camp

## EXPERIENCE

### HOMEUCU, LLC | SITE RELIABILITY ENGINEER

March 2017 - Present

- Design, develop, and administrate AWS infrastructure and automation for new production stack using Docker, Cloudformation, Python, and various other tools and technologies

### ZDATA, INC | SOFTWARE DEVELOPER

January 2016 - January 2017

- Design, develop, and maintain software applications in support of our managed services team

### CLEARWATER ANALYTICS | SOFTWARE DEVELOPER

July 2015 - December 2015

- Design, develop, and maintain full-stack web applications, specifically in the Asset Manager space

### ALPINE DATA LABS | DATA SOLUTION ARCHITECT

January 2015 - July 2015

- Developer and maintainer of several internal and external toolkits and libraries
- Provide assistance for the sales and technical account managers regarding proof-of-concepts and other technical concerns with Alpine/Chorus
- Perform or consult on remote installs

### ZDATA INC. | BIG DATA ENGINEER

Jan 2014 - Jan 2015 | Boise, ID

- Work with and provide support for EMC/Pivotal database technologies
- Research and evaluate several big data technologies including: Hadoop, Spark, Storm, and Kafka, as well as other technologies such as PostgreSQL and Zabbix

### BOISE STATE UNIVERSITY | RESEARCH ASSISTANT

2013 | Boise, ID

- Research and develop a new framework for heterogeneous CUDA-capable GPU clusters

### BOISE STATE UNIVERSITY | STUDENT HPC SYSTEMS ADMINISTRATION ASSISTANT

Summer 2013 | Boise, ID

- Provide technical support in a GNU/Linux driven high performance computing environment
- Configure advanced GPU/CPU scheduling into Sun Grid Engine (SGE)
- Downsize and clone an Idaho National Laboratories (INL) based mini-Cave

### POWER ENGINEERS | INTERN SOFTWARE DEVELOPER

2008 - 2013 | Boise, ID

- Design, develop, and maintain full-stack custom applications for internal POWER operations using ASP.NET/WebForms/MVC in C#, HTML/CSS, and JavaScript
- Developed internal libraries, API bindings, and network administration applications