Bret Comnes

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Portland OR   **Web:** http://bret.io/

Experience

- **Javascript Software Developer**   July 2015 - Present
  Jaguar Land Rover   *Portland, OR*
  - Rapid infotainment prototype development using Node.js/express.

- **Technical Support Engineer**   April 2015 - July 2015
  Urban Airship   *Portland, OR*
  - Support Urban Airships customers ranging from mobile developers to marketers.
  - Custom mailing software for sending personalized emails to customers in Node.js

- **Web & Systems Developer**   May 2014 - April 2015
  PSU Office of Information Technology - Academic & Research Computing   *Portland, OR*
  - Web applications and systems programming with Python and Django.
  - Implemented and designed a Github style email correspondence bridge for ARCs ticketing system.
  - Implemented user tracking and notification system for ARC's research systems.
  - Writing package that tracks MySQL and Postgres database activity of ARCs hosted projects.

- **Systems Administrator**   May 2013 - April 2015
  PSU Office of Information Technology - Academic & Research Computing   *Portland, OR*
  - Responsible for building, automating and monitoring PSU's research servers and Linux Clusters.
  - Initiated efforts to automate cluster deployment and management using configuration management.
  - Launched a successful user support documentation website to orient new users on the available research systems.
  - Trained and introduced new users to ARCs resources and shared unix computing environments.

- **Research Assistant to Dr. Erik Sanchez**   May 2013 - April 2015
  PSU Sánchez Nano Development Lab   *Portland, OR*
  - Wrote custom control software and a web application that enabled remote viewing and operation of a Scanning Electron Microscope over the internet using Web Sockets and WebRTC.

- **Lab Instructor & Teachers Assistant**   September 2012 - December 2014
  Portland State University   *Portland, OR*
  - Instructed PSU's General Physics Labs and assisted in the upper division Experimental Physics Labs.
  - Developed two novel labs on the use of microcontrollers and FPGAs covering basic concepts to advanced topics like PID control theory.

- **Textbook Development Consultant**   January 2012 - July 2012
  Cardinal TS   *Remote in Ashland, OR*
  - Front end Javascript development for a interactive calculus textbook website for Wiley Publishing.
  - Provided conceptual content and calculus interpretation for other members of the development team.

- **Research Assistant to Dr. C.D. Hoyle**   May 2009 - September 2011
  HSU Gravitational Research Laboratory   *Arcata, CA*
  - Designed and machined custom experimental instruments and developed the lab's data collection, automation and analysis software to study the gravitational inverse-square law at sub-millimeter distance scales.

- **Research Assistant to Dr. David Kornreich**   November 2009
  The Arecibo Legacy Fast ALFA Survey   *Arecibo, Puerto Rico*
  - Trained and operated one of the worlds largest radio telescopes and analyzed the collected data searching for previously undiscovered galaxies.

Education

- **Masters in Applied Physics**
  Portland State University

  September 2012 - April 2015
  (On leave) Portland, OR

- **Bachelor of Science in Physics**
  Humboldt State University

  August 2006 - May 2011
  Arcata, CA

Skills

Operating Systems, Languages, & Applications

- **Fluent:** Linux/Unix, OS X, Windows, Node flavored Javascript, Python, Git/Github, HTML, CSS, Ansible, systemd, Mathematica
- **Familiar:** Go, Ruby, electron, bash, *SQL, C/autotools, regex, LevelDB, backbone.js, websockets, WebRTC, Oauth

Character: Demonstrated proficiency with public communication skills. Exceptional troubleshooting and debugging skills. Adept at rapidly learning new programming languages and tools. Expert at remote/distributed collaboration and open source development. Excels at teaching and learning with others. Goal driven. Positive.

Publications, Talks, Community Involvement & Leadership

- **PDX Node**
  Organizer & Volunteer

  September 2015 - Present

- **Code for Portland**
  Organizer & Volunteer

  March 2014 - July 2015

- **"Remote Operation of a Scanning Electron Microscope using WebRTC"**
  WebRTC Camp

  October 2013

- **"Distributed Social Web Interactions with Semi-Static Websites"**
  OSFW3C Workshop on Social Standards: The Future of Business

  August 2013

Recent Open Source Contributions

- **Node Learnbook**
  github.com/bcomnes/node-learnbook

  E-Book
  io.js gurus approve!

  – A book about how and where to learn about node and javascript

- **standard-format**
  npmjs.com/standard-format

  Node.js
  $\sim 38\,000+$ *downloads/month*

  – Automatically format javascript to conform to standard Javascript Styling rules.

- **Sublime StandardFormat**
  packagecontrol.io/packages/StandardFormat

  Python
  $\sim 550+$ *downloads/month*

  – A Sublime Text plugin to autoformat javascript to conform to standard on file save.

- **twitter-video**
  https://www.npmjs.com/package/twitter-video

  Node.js
  tweeps approved!

  – A small module and cli for uploading video to twitters api

- **homebrew-iojs**
  https://github.com/aredridel/homebrew-iojs

  Ruby
  down with barriers to publishing!

  – Help maintain a homebrew tap for installing working versions of node/iojs and npm

Github: See https://github.com/bcomnes for more contributions

September 17, 2015