

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 ARC's 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** September 2012 - April 2015
Portland State University (On leave) Portland, OR
- **Bachelor of Science in Physics** August 2006 - May 2011
Humboldt State University 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** September 2015 - Present
Organizer & Volunteer
- **Code for Portland** March 2014 - July 2015
Organizer & Volunteer
- **“Remote Operation of a Scanning Electron Microscope using WebRTC”** October 2013
WebRTC Camp
- **“Distributed Social Web Interactions with Semi-Static Websites”** August 2013
OSFW3C Workshop on Social Standards: The Future of Business

Recent Open Source Contributions

- **Node Learnbook** E-Book
github.com/bcomnes/node-learnbook *io.js gurus approve!*
 - A book about how and where to learn about node and javascript
- **standard-format** Node.js
npmjs.com/standard-format ~ 38 000+ downloads/month
 - Automatically format javascript to conform to [standard](#) Javascript Styling rules.
- **Sublime StandardFormat** Python
packagecontrol.io/packages/StandardFormat ~ 550+ downloads/month
 - A Sublime Text plugin to autoformat javascript to conform to standard on file save.
- **twitter-video** Node.js
<https://www.npmjs.com/package/twitter-video> *tweeps approved!*
 - A small module and cli for uploading video to twitters api
- **aredridel/homebrew-iojs** Ruby
<https://github.com/aredridel/homebrew-iojs> *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