Bret Augustine Comnes

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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

Bachelor of Science in Physics

Humboldt State University

September 2012 - April 2015

(On leave) Portland, OR

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 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

qithub.com/bcomnes/node-learnbook

io.js gurus approve!

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

standard-format Node.is

npmjs.com/standard-format

 $\sim 38\,000+\ downloads/month$

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

Sublime StandardFormat

Python package control. io/packages/Standard Format $\sim 550 + downloads/month$

- 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

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