

# CARL BURNSTEIN

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## SKILLS

Extensive experience with web and mobile application development, knowledge of both Mac and Windows hardware and software, proficiency with audio and video equipment setup and use, strong organizational and multi-tasking skills, proven leadership ability, excellent communication skills, and recognized as a highly motivated individual.

- Swift
- Objective-C
- PHP
- Advanced HTML
- CSS
- JavaScript
- MySQL, PgSQL
- AJAX
- Python
- Java
- iOS/Android Development
- jQuery, jQuery UI
- Linux, LAMP
- Responsive Web Design
- MVC frameworks
- Object-oriented programming
- JIRA project management
- Version control (Git, SVN, Hg)

## EXPERIENCE

### Software & Systems Engineer January 2017 - Present

Educational Software Developer, September 2011 - 2017

The U of O Center For Applied Second Language Studies (CASLS)

- Responsible for architecting, developing, testing, and maintaining web- and mobile-based application systems and databases used by language programs across the country.
- Consult with external funders to analyze their needs and develop, design, and code customized applications to meet those needs.
- Regularly manage multiple projects.
- Lead role in budgeting and estimates for tech team projects.
- Supervise student developer position.
- Computer software and hardware support.

### Information Technology Consultant

Self 2010 - Present

- Website and mobile app design, development, and deployment for small business.
- Third-party hosting service (GoDaddy, Dreamhost, Rackspace, etc) setup and administration
- Wordpress setup, installation, and customizations including widgets, themes, and plugins.
- Technology equipment research, advice, and installation.
- Computer software and hardware support for Mac and Windows.

### Lead Software Engineer

TDG Co., LLC. March 2014 - 2016

- Responsible for designing, writing code, testing, and maintaining mobile applications, web service and database used for vehicle-to-vehicle communication systems.
- Responsible for code repositories including web service in PHP, native iOS, and native Android applications.
- Setup and maintenance of virtual machine servers
- Supervise development of web service, Android, and iOS applications by contracted developers.
- Graphics design for print and digital assets

### eBusiness Club President

The University of Oregon 2011 - 2012

- General responsibilities of a University Club President such as general meeting organization, email communication, and project management.
- eBusiness club focuses on web development technologies and entrepreneurship, as well as a large emphasis on collaboration and learning.

### PC/Mac Troubleshooter and Student Programmer

The U of O Center For Applied Second Language Studies (CASLS) July 2010 - September 2011

- Computer software and hardware support.
- Involvement with web development and programming projects.

### Library Student Assistant 4

The U of O Center for Media and Educational Technologies (CMET) February 2009-September 2011

- Library Student Assistant with classroom technologies.
- Knowledge and experience with audio and video equipment such as HD video cameras, digital still cameras, and audio cables.
- Troubleshoot classroom technology equipment such as digital projectors, laptops, audio systems and Crestron and Extron switcher systems.

## **Martial Arts Instructor**

Shin's Family Martial Arts Center, Santa Clarita CA, 2004 - 2006

- Martial Arts Instruction: weapons, forms, sparring and basic martial arts for children; also private lessons.
- Member of the studio's Extreme Martial Arts Demo Team, and Weapons Demo Team.

## **EDUCATION**

University of Oregon, Eugene OR — Graduated in 2012

Bachelors of Science in General Social Sciences with a  
Concentration in Applied Economics, Business and Society

Minor in Computer and Information Technologies (CIT)

Minor in Music

West Ranch High School, Valencia CA — Graduated in 2008

## **PROJECTS**

### **LingroToGo**

LingroToGo is a game-based Spanish language learning curriculum delivered on mobile devices. Users can practice their Spanish language skills using various mini-games available within the app.

- Architected backend web service and iOS application
- Development of backend web service and APIs with Yii framework (PHP), MySQL, HTML, and Javascript
- Development of iOS application using Swift and CocoaPods open source libraries
- Designed MySQL database using relational database strategies
- Deployment of LingroToGo to the Apple App Store and Google Play Store

### **LinguaFolio Online/LFO To Go**

LinguaFolio Online is an ePortfolio evaluation tool that allows students to collect evidence demonstrating their communicative abilities in a world language. LFO To Go is the companion mobile app to LinguaFolio Online.

- Redesigned web application from the ground up
- Responsive web design using Twitter Bootstrap
- Major database redesign using relational database strategies (MySQL)
- Development and deployment of LFO To Go mobile apps
- Customized versions of LinguaFolio Online and LFO To Go for various partners

### **TheBikeShieldApp**

<https://thebikeshieldapp.com>

An iOS and Android application that provides a vehicle-to-vehicle communication system which establishes communication between cars, buses, motorcycles and bicycles that are sharing the road. When using this app, car/bus drivers get an acoustic signal that warns them about approaching motorcycles and bicycles. These signals raise drivers' awareness and reduce distracted maneuvers that may result in a fatal crash with motorcycles and bicycles..

- Oversaw phase 1 & 2 of development by a team of engineers in India
- Published v1 and v2 to Android Play Store and iOS App Store
- Continued development as sole developer for v2.1 and 2.2 for both Android and iOS
- Development and planning of v3.0
- Server setup and maintenance
- Developed prototype Bluetooth Beacon vehicle-to-vehicle application
- Developed prototype Apple Watch enabled application
- Developed prototype Android Auto enabled application

### **InterCom**

InterCom is a weekly email newsletter that goes out to over 2000 subscribers nation wide.

- Redesigned web application from the ground up
- Responsive web design using Twitter Bootstrap
- Converted the PostgreSQL database to MySQL
- Major database redesign using relational database strategies

### **Language Evaluation Website for GlobalExpo**

I oversaw development of a language evaluation website for students at the University of Oregon who were applying to become student ambassadors for the GlobalExpo event being hosted by the university this year.

- Designed MySQL database using relational database model
- Yii PHP framework
- Worked with my student employee to develop and deploy the website.

### **GetTogether**

GetTogether is an application that allows you to create and share event information with friends and see what's going on in your community. My role as CTO involved:

- Overseeing development of the iOS app, Android app, and web service
- We outsourced the development through Elance.com to a team in India
- Responsible for communicating with the team of developers in India
- Added additional features to the apps and web service after completion of the beta
- Published the iOS and Android apps on their respective app stores.

### **IdeaJam**

IdeaJam was an interdisciplinary business competition that I started with the UO eBusiness club. Over the span of a weekend, students collaborated in teams of 4-5 to rapidly prototype eBusiness ideas.

### **CMET ShotSlinger**

CMET Shot Slinger is an iOS application that is now being used at the University of Oregon Center for Media and Educational Technologies(CMET)

- Developed the basic version of the app as a project for school
- Enhanced the basic version and added a QR code reader to the app
- Coded a website that generated QR codes of the delivery shots for the app to scan
- Published on the iOS App Store.

### **Haha!**

Haha! is a simple iOS application designed to encourage laughter as a daily health routine that the eBusiness club developed as a team. The club separated into teams and came up with a business and marketing plan, and designed and developed the application. We published the app on the iOS App Store.