

# Charles Jones

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## Background

I am a jack-of-all-trades programmer with over **15 years** experience, currently spending most of my time on **web** and **mobile** app development. I am passionate about **open-source** software and writing software that people love using.

## Skills

- Web: Ruby/Rails, Java, HTML5, CSS, Javascript/ECMAScript, JQuery, MySQL, RESTful HTTP APIs
- Mobile: Android – Java, Apple iOS – Objective C
- Unix/Linux system applications and scripting: C/C++, Ruby, Python, Perl, Shell (Bash) scripting
- Learning: Node, Backbone, NoSQL/MongoDB

## Experience

### Educational Technology Center – Texas State University, San Marcos, TX

Programmer Analyst II – 2009 to Present

- Implemented the university's **Android** application and contributed to the **iOS** application.
- Modified and maintain open-source **Java-based CMS** that hosts 300+ university websites. Developed custom site templates, created new features, fixed bugs (and submitted them back upstream), and integrated the application with other university systems.
- Developed a **Ruby on Rails** application for workshop and training registration, scaling it up from a few users to over 40 departments.
- Implemented a **Rails** application for the University Event Calendar, managing events for over 70 university departments.
- Implemented Lifecycle, a **Rails** application for management of several CMS-type services and their users.
- Maintain a web-crawler that scans university websites for dead links using Lifecycle and the open-source **Python** Linkchecker software, and submitted several bug-fixes upstream.

## **Systems Application Engineering, Inc. – Houston, TX**

Systems Analyst – 2002 to 2009

- Created **mobile** applications on **DOS** and **Windows-CE** based mobile devices for food distribution and other industries.
- Wrote the server-side applications they communicated with, running on **Windows** or **Unix** platforms.
- Implemented **RESTful API** to legacy server application by writing **CGI** scripts in **ANSI C** generating **XML** responses to queries on the application's data.
- Designed, implemented, and maintained an application framework in **C#** for writing extensible mobile applications on **Windows CE**. Wrote modules for wireless **TCP/IP** communications, **Bluetooth** printing, **Bar Code scanning**, and **i18n**.
- Implemented **client/server** system for alcohol/tobacco tax collection at ports of entry along Texas/Mexico border. Wrote a single client application in **C#** that cross-compiled to both Windows Mobile and desktop **Windows** platforms.
- Wrote warehouse logistics **client/server** system that utilized **Text-To-Speech**, **Voice Recognition** and **Bar Code Scanning** to direct users and record their input.
- Created custom **HTTP** client in **C++** and custom **XML**-based template language to facilitate implementation of **voice** enabled applications on mobile devices.

## **Education**

### **M.S. Computer Science, 2013**

Texas State University, San Marcos, TX

### **B.S. Computer Engineering, 2001**

Georgia Institute of Technology, Atlanta, GA