

# 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, CouchDB, RESTful HTTP APIs
- Mobile: Android - Java, Apple iOS - Objective C
- Unix/Linux system applications and scripting: C/C++, Ruby, Go, Python, Perl, Shell (Bash) scripting
- Learning: Microservice architectures, Inclusive design

## Experience

Educational Technology Center - Texas State University, San Marcos, TX

Senior Programmer Analyst – 2014 to Present

- Led development of the university's **Android** and **iOS** applications.
- Developing policy and guidelines mandating mobile-friendly web design for all university websites.
- Implemented caching proxy server in **Go** for distributed microservices that enabled efficient access of these services by many different applications and thousands of users.

Programmer Analyst II – 2009 to 2014

- Modified and maintained 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 several **Ruby on Rails** applications including a workshop reservation system and the University Events Calendar, both used by dozens of departments across the university.

- Maintained 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