

Sean Collins

SOFTWARE DEVELOPER

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Education

Georgia Institute of Technology (Georgia Tech)

Atlanta, GA

B.S. COMPUTER SCIENCE, CHINESE MINOR

Aug 2012 — Dec 2015

- Specialized in computer architecture, systems, and networking.
- Studied at Shanghai Jiaotong University as part of a business and technology Chinese immersion program.
- Achieved a 3.0 graduating GPA (out of 4.0).

Experience (Skills)

Spiceworks

Austin, TX

SOFTWARE DEVELOPER

Jan 2016 — Present

- Lead backend engineer for network monitoring application (C#, PowerShell, JavaScript, Ruby, SQLite, Redis, InfluxDB).
- Point-of-contact for operations and deployment duties (Jenkins, Hyper-V, PowerShell, Batch).
- Backend engineer for deployed system inventory application (C#, PowerShell).
- Backend engineer for suite of online web tools (Ember, JavaScript, Node.js).

Spiceworks

Austin, TX

SOFTWARE DEVELOPMENT INTERN

May — Aug 2015

- Backend engineer for network monitoring application (C#, JavaScript, Linux, Bash).
- Resolved IT-related development issues (Hyper-V, Active Directory).

Liang & Associates

Coral Springs, FL

IT SUPPORT

Aug 2011 — Jun 2012

- Configured and supported a small business network.
- Maintained a sales website (phpMyAdmin).

Selected Personal Projects

YourTunes file system

C, LINUX KERNEL, PYTHON

Fall 2015

A networked FUSE filesystem optimized for songs with metadata. Music placed in a YourTunes mountpoint is accessible via an indexable hierarchy based on ID3 tags. File I/O is handled by interfacing with a RESTful server-side API.

RedMessenger message push server

REDIS, JAVASCRIPT (NODE.JS)

Summer 2015

A Node.js proxy between a group of Redis publish/subscribe channels and an HTTP WebSocket which allows push notifications to be easily delivered and displayed on a web application in real time.

Niu32 ISA and assembler

PYTHON, VERILOG

Summer 2015

A specification and assembler for a simple, 32-bit RISC instruction set architecture.

Tiger/MIPS compiler

ANTLR, JAVA, MIPS

Fall 2014

An LL(1) 3-stage compiler for a conceptualized language called Tiger, compiled to the MIPS architecture.

Certifications and awards

CERTIFICATIONS

- 2013 **Cisco Certified Network Professional (CCNP)** Routing and Switching
- 2013 **Microsoft Technical Associate** IT Infrastructure
- 2012 **CompTIA A+**

AWARDS

- 2015 **Dean's List** Georgia Tech
- 2014 **First Place** Georgia Tech—IEEE Cisco Networking Competition