Scott **Simontis**

Full-Stack Software Engineer · No, really. Databases, servers, hardware, networks. · Batteries included

Atlanta, GA

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"Move fast & break things...with stable infrastructure."

Work Experience

Various Projects   *Atlanta, GA*

Open Source Contributor   *Nov. 2019 - Present*

- Started contributing to the NodeJS-based WikiJS by fixing bugs, helping users with issues, updating site documentation, and automating builds and Docker container creation. Increased test coverage for project while contributing backend ExpressJS code and Vue components.
- Created a WPF application in .NET Core to parse algorithms out of Excel sheets, calculate variance and chart the results.
- Studied Elixir and Ruby programming languages to enhance scripting abilities and explore Machine Learning applications.
- Set up a homelab consisting of three Linux servers by writing Chef recipes to control the provisioning and setup process of each machine,

SoftTech USA   *Norcross, GA*

.NET Developer   *Sep. 2019 - Nov. 2019*

- Automated the creation of test environments using a combination of Puppet Bolt tasks and Powershell scripts.
- Simplified access to complex, legacy e-commerce systems and product configuration databases by writing new API endpoints in ASP.NET while simultaneously writing requirements for future endpoints required to phase out legacy code components.
- Refactored generic Entity Framework repositories into domain-driven services responsible for validation of business logic and more flexible transaction support.
- Maintained .NET Core-based utilities responsible for running automated test infrastructure, consolidating log files from Azure BLOB storage and indexing error entries into an Apache SOLR instance.

Scott Simontis Consulting   *Atlanta, GA*

Software Systems Engineering Consultant   *Apr. 2019 - Sep. 2019*

- Reduced page load times from 20+ seconds to 2 seconds for a major online retailer suffering outages during peak sales periods. Identified MySQL index issue responsible for page load issues after adding extensive APM diagnostics.
- Audited codebase inherited by local outbound sales company in preparation for severing ties with their offshore development team. Presented to senior leadership about risks of technical debt, contingency planning, and proposed a new requirements gathering process after demonstrating acute variance between leadership's perception and call center agent perception of productivity improvements attributed to the software.
- Added Multi-Factor Authentication to Azure Active Directory using ADAL.js and updated an ASP.NET MVC application, REST API and JavaScript Chrome extension to follow new authentication flow.
- Developed MVP for a social network geared towards primary education faculty that incorporated grading and attendance tracking using ExpressJS, VueJS and SCSS. Designed relational schema for application in PostgreSQL.

Regulatory Affairs Professionals Society   *Rockville, MD*

Web Administrator   *Sep. 2017 - Apr. 2019*

- Optimized site performance, resulting in 60 percent drop in page load time and 30 percent drop in bandwidth consumption caused by incorrectly configured CDN and inconsistent HTTP caching.
- Guided discussions with senior leadership regarding GDPR compliance efforts and automated opt-in mandate by delivering a self-service portal in ReactJS that allowed members to manage their communication preferences and consents.
- Conducted usability studies using HotJar, user interviews and Google Analytics data to set development priorities for site and demonstrate how technology was advancing business goals and where our conversion funnels were breaking down.
- Introduced CI concepts to website: Automated front-end asset management with GulpJS, set up build pipeline of CMS backend in Azure DevOps, and began introducing XUnit.NET tests to codebase by refactoring ASP.NET Web Forms pages to comply with MVP pattern.
- Documented best practices for Application Lifecycle Management and developed runbooks and best practices for content editors.
- Developed ASP.NET web parts, REST endpoints, C# services and JavaScript libraries to add new features to Kentico 10 website and integrate with marketing and e-commerce systems.

CFSRES Emergency Systems (defunct)   *Remote*

Co-founder/Development Lead   *Jun. 2015 - May. 2017*

- Modified an open-source Software Defined Radio application written in C to publish incoming messages to multiple backend systems via ZeroMQ.
- Delivered ExpressJS application that streamed real-time emergency dispatches stored in RethinkDB via Socket.io to community residents.
- Designed PostgreSQL database to maintain subscriber info, forming basis of AWS Simple Notification Service process responsible for sending SMS alerts to subscribers when their station of duty received an incoming page.
- Deployed and administered AWS LightSail VPS and EC2 instances.

Intellinet

Consultant

Atlanta, GA

Dec. 2013 - Sep. 2017

- Volunteered to serve as Sitecore Knowledge Manager for company; maintained best practices for solution architecture, content hierarchy design, deployments and long-term support. Participated in 3 successful Sitecore MVC implementations and took responsibility for DevOps in Azure environment on a 4th project.
- Constructed REST API integration framework to automate API consumption and simplify integration testing, allowing team to respond within a week when client removed an entire layer of their API.
- Automated Sitecore builds through Gulp task runner and maintained Azure Devops CI/CD pipelines. Wrote deployment runbooks for clients and provided guidance to Operations teams during deployments.
- Wrote modular, ADA-compliant front-end components using SCSS, jQuery, KnockoutJS and QUnit. Wrote the sandwich customization user interface used by Subway's online ordering system.
- Created business rules engines, actor frameworks, dynamic SSRS reports and a Lucene-based geographical search engine during ASP.NET MVC application development projects.
- Implemented C# batch process to accurately migrate financial records to Great Plains by calling a collection of T-SQL stored procedures. Extended GP functionality by authoring ASP.NET Web API endpoints to support time entry needs and automate payroll processing workflows using Quartz.NET scheduled tasks.

Applied Information, Inc.

Software Engineer

Suwanee, GA

May. 2012 - Aug. 2013

- Designed a digital billboard system powered by a custom-developed Windows 7 Embedded controller running a C# service to control sign output and content management functions.Integrated GPS receivers, cellular modems and video input capture interfaces with controller software.
- Supervised an overseas team tasked with porting the advertisement scheduling system to Android, which was delivered on-time and within budget.
- Debugged digital sign controller failures occurring on Z80 microcontrollers running MicroC RTOS.
- Wrote a batch process to pull data from a SQL data warehouse and develop custom charts for dashboard systems to alert fleet owners of potential mechanical failures and upcoming scheduled maintenance.
- Identified a plaintext password storage vulnerability in company's flagship cloud-based interface and implemented password hashing with BCrypt to protect passwords.

Delcan Technologies

Software Engineering Co-op Student

Suwanee, GA

Aug. 2010 - May 2012

- Wrote serial and TCP/IP drivers in C# according to proprietary protocols or federal NTCIP v2 standards.
- Maintained a touchscreen-based data collection system for snowplow trucks running off of VB.NET and Windows XP Embedded. Assembled hardware, added support for new system integrations and wrote stored procedures to calculate and plot material usage and distance plowed.
- Created a Windows Service that provided a virtual dynamic message sign which complied with NTCIP 1203 standards and produced pixel-perfect renderings of message output for upload on proprietary signs lacking NTCIP support.
- Created a touchscreen-based Windows Forms application providing in-vehicle dispatch capabilities to GDOT HERO emergency responders and replacing paper reports with digital forms.

Certifications

2015	**Sitecore 8 Professional Developer,** Sitecore
2014	**70-480: Programming in HTML5 with JavaScript and CSS3,** Microsoft Learning
2013 - 2016	**Emergency Medical Technician,** National Registry of Emergency Medical Technicians

Education

Georgia Institute of Technology

B.S. Computer Science (incomplete)

Atlanta, GA

Aug. 2009 - May. 2013

- 94/126 credit hours completed.
- Areas of study: Systems & Architecture and Information Internetworks

Georgia EMS Academy

EMT and Advanced EMT programs

Demorest, GA

Sep. 2013 - March 2014

- Successfully completed all academic and psychomotor components for EMT program.
- Completed academic components of AEMT program.

Research Projects

Vertically Integrated Projects Laboratory: Collaborative Workforce

Undergraduate Researcher

Georgia Institute of Technology

Aug. 2011 - Dec. 2011

- Studied data sheet and reference manual to gain an understanding of the device's dual-core architecture and develop a high-level plan to capture high-definition video signals.
- Researched video output capabilities of device and assisted graduate team members with coding of semester demo, which displayed a spectrogram on screen in real-time.