

Scott Simontis

FULL-STACK SOFTWARE ENGINEER · NO, REALLY. DATABASES, SERVERS, HARDWARE, NETWORKS. · BATTERIES INCLUDED

Atlanta, GA

☎ (+1) 470-279-1230 | ✉ yo@scottsimontis.io | 🌐 scottsimontis.io | 📷 ssimontis | 📱 ssimontis | 📧 scott.simontis

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

Work Experience

SoftTech USA

Norcross, GA

.NET DEVELOPER

Sep. 2019 - Nov. 2019

- Wrote Puppet Bolt tasks, custom resources, and Powershell scripts to automate test environment setup on virtual machines.
- Developed REST API endpoints in ASP.NET to integrate multiple legacy systems into a single system.
- Refactored Entity Framework data layer for our web services to optimize performance and increase developer productivity.
- Gathered detailed product requirements and wrote API specifications, risk management documentation and statements of work to be approved by project manager and CTO.

Scott Simontis Consulting

Atlanta, GA

SOFTWARE SYSTEMS ENGINEERING CONSULTANT

Apr. 2019 - Sep. 2019

- Optimized peak load page load times from 20+ seconds to 2 seconds during an infrastructure transformation for an online retailer with \$1M+ yearly sales. Presented a report of site performance and security issues which motivated client to approve system enhancements; added Application Performance Monitoring to servers, hardened Linux environments, and performance-tuned Nginx, Varnish, PHP and MySQL. Interviewed client's IT department and hosting provider to document current procedures and disaster recovery plans; recommended colocation providers and new server specifications to create redundant infrastructure.
- Delivered plan to local call-center software firm to migrate services currently controlled by offshore developers to Microsoft Azure after reviewing IT department, offshore firm owner and architects, and shadowing call center agents.
- Added Multi-Factor Authentication to Azure Active Directory using the Azure AD Graph API and updated an ASP.NET MVC front-end 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 backend paired with a VueJS and SCSS interface. Designed relational schema for application in PostgreSQL.

Regulatory Affairs Professionals Society

Rockville, MD

WEB ADMINISTRATOR

Sep. 2017 - Apr. 2019

- Audited site performance, resulting in 60 percent drop in page load time and 30 percent drop in bandwidth consumption caused by incorrectly configured CDN and 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 allows customers to manage their interactions with the website.
- 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 which feature requests were most relevant to users.
- Introduced CI concepts to website. Automated front-end asset management with GulpJS, set up build pipeline 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 systems.

Intellinet

Atlanta, GA

CONSULTANT

Dec. 2013 - Sep. 2017

- Volunteered to serve as Sitecore Knowledge Manager for company. Maintained best practices for solution architecture, content hierarchy design, deployment, site maintenance, troubleshooting and upgrade procedures. Participated in 3 successful Sitecore MVC implementations.
- Constructed REST API integration framework to automate API interactions 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 engagements.
- 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.

CFSRES Emergency Systems (defunct)

Remote

SYSTEMS ENGINEER/DEVELOPMENT LEAD

Jun. 2015 - May. 2017

- Modified an open-source Software Defined Radio application written in C to publish incoming messages via ZeroMQ to multiple backend systems.
- Delivered ExpressJS application that streamed real-time emergency dispatches stored in RethinkDB via Socket.io.
- Designed PostgreSQL database to maintain subscriber info and send SMS alerts triggered by AWS queue and messaging components.
- Deployed and administered AWS LightSail VPS and EC2 instances.

Applied Information, Inc.

Suwanee, GA

SOFTWARE ENGINEER

May. 2012 - Aug. 2013

- Designed a digital billboard system and wrote embedded controller software in C# running on Windows 7 Embedded. Established XML subscription format and a scheduling algorithm to drive content display. Assembled hardware for prototype units. 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.
- Identified a plaintext password storage vulnerability in our cloud monitoring interface and implemented password hashing with BCrypt to protect passwords.

Open Source Contributions

DEV.TO

<https://dev.to>

CONTENT MODERATOR

May 2019 - Present

- Reviewed articles and comments for compliance with site Terms of Use and community guidelines.
- Encouraged participation by newer members.
- Guided discussion in comments towards constructive dialogs instead of flame wars, personal attacks, or unsubstantiated claims.

Certifications

2015 **Sitecore 8 Professional Developer**, Sitecore

2014 **70-480: Programming in HTML5 with JavaScript and CSS3**, Microsoft Learning

Education

Georgia Institute of Technology

Atlanta, GA

B.S. IN COMPUTER SCIENCE

Aug. 2009 - May. 2013

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

Research Projects

Vertically Integrated Projects Laboratory: Collaborative Workforce

Georgia Institute of Technology

UNDERGRADUATE RESEARCHER

Aug. 2011 - Dec. 2011

- Gathered documentation on the TI DaVinci microcontrollers donated to our program.
- 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.
- Maintained Wiki for team and documented all our progress and discoveries for the students taking over the project next semester.
- 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.