

Scott N. Simontis

SR. SOFTWARE ENGINEER · FULL STACK DEVELOPER · SYSTEMS ENGINEER

Atlanta, GA

☎ (+1) 470-279-1230 | ✉ yo@scottsimontis.io | 🌐 scottsimontis | 🐙 sadboiscott | 📄 scott-simontis | 📺 scottsimontis

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

Education

Georgia Institute of Technology

Atlanta, GA

B.S. COMPUTER SCIENCE (INCOMPLETE)

Aug. 2009 - May 2013

- 94 of 126 credit hours completed; left school to become an Emergency Medical Technician.
- Specializations: Systems and Architecture, Information Internetworks
- Participated in Collaborative Workforce undergraduate research program to design a hardware/software setup to capture lectures in high-definition video and stream the content through Ethernet connections. Studied data sheet and reference manual for a TI DaVinci DSP controller to develop a high-level architecture for development efforts. Maintained team wiki knowledge base. Assisted graduate research students with development of C program to display a real-time spectrogram for use as team demo at end of semester.

Georgia EMS Academy

Loganville, GA

EMERGENCY MEDICAL TECHNICIAN CERTIFICATE

2013 - 2014

- Completed curriculum required to take the National Registration of Emergency Medical Technicians exam at the Emergency Medical Technician level.
- Worked 80 hours of clinicals with South Fulton EMS as part of an Advanced Life Support crew.
- Completed curriculum required to take the National Registration of Emergency Medical Technicians exam at the Advanced Emergency Medical Technician level.

Skills

DevOps	Azure DevOps, Git, GitLab CI, BitBucket, JIRA, Docker, Docker Compose, Linux System Administration, LDX containers, Vagrant, Packer, Terraform, Jenkins, Chef, Puppet, Ansible, Nginx, IIS 10, Varnish, Memcached, Octopus Deploy, HyperV, QEMU, KVM
Back-end	ExpressJS, NestJS, ASP.NET MVC, ASP.NET Web API, ASP.NET Core, REST API development and integration, OAuth 2.0, Content Delivery Networks, SOLR, Lucene
Front-end	Hugo, Redux, React, Vue, Vuex, Nuxt, Gridsome, GraphQL, HTML5, SCSS, CSS3, jQuery, Elm, Reason, Yarn, NPM, RequireJS, GulpJS, Webpack
Programming	NodeJS, ES6, TypeScript, C#, F#, Python, Bash, Go, C, Ruby
Databases	Microsoft SQL Server, Azure SQL, T-SQL, PostgreSQL, PL/pgSQL, MongoDB, ReThinkDB, Entity Framework 6/Core, Redis
Content Management	Sitecore 7.2 - 8.1, Kentico 10, FactorJS, RawCMS
Azure	Virtual Machines, Application Insights, Service Fabric, Active Directory, Active Directory B2C, Sphere, App Service, Cognitive Search, API Management, Azure CLI, Virtual Networks, DNS, Application Gateway, Key Vault, Blob storage, File storage, Web apps, Service Bus, Text Analytics, Power BI, Batch, Cloud Services, IoT Hub, Azure Resource Manager, Firewall, Web Application Firewall
AWS	Simple Notification Service, Simple Queue Service, EC2, Lightsail, Batch, Elastic Container Registry, Elastic Container Service, Simple Email Service, DynamoDB, CloudFormation, Route 53, CloudFront, VPC, IAM, Certificate Manager, Firewall Manager, Secrets Manager, WAF, S3, EBS, EFS

Experience

ImagineX Consulting

Atlanta, GA

SOFTWARE ENGINEERING CONSULTANT

2020

- Wrote unit and integration tests to validate controllers migrated to ASP.NET Core using XUnit.NET, AutoFixture, and Moq.
- Demonstrated viability of blue-green deployments in Azure DevOps by containerizing ASP.NET Core application and writing automated build service to create container images.
- Replaced public fileshare on corporate intranet with an Azure Blob Storage implementation responsible for enforcing access control and serving files via one-time use URLs.
- Provided guidance on network infrastructure, information security and virtualization during initial design sessions for a VPN tunneling and routing service. Wrote technical specifications for cross-platform VPN login client and update manager & X.509 certificate validation service. Maintained system integration and data flow diagrams.
- Wrote microservices to compare hardware thumbprints and user identities against a Certificate Revocation List, issue client certificates pending administrative approval, and deliver IPSec configuration information to authorized clients using Express, Keycloak and PostgreSQL. Wrote Docker Compose files to host services and supporting applications until services could be migrated to Kubernetes.
- Developed .NET Standard library to create and validate X.509 certificates, establish and tear down IPSec-based VPN connections, store encrypted certificates in SQLite, and pull configuration data from SQLite using a custom configuration provider.
- Created prototype certificate management User Interface for MacOS using Xamarin.Mac and wrote .NET Core hosting integration to support Dependency Injection and Serilog across all platforms.

SoftTech USA

Norcross, GA

.NET DEVELOPER

2019

- Automated creation of test environments using a combination of Puppet Bolt tasks and PowerShell scripts.
- Simplified access to legacy e-commerce systems and product configuration databases by writing new API endpoints in ASP.NET. Drafted requirements for future endpoints required to phase out all legacy code.
- Refactored generic Entity Framework repositories into domain-driven services responsible for validation of business logic.
- 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.
- Provided architecture direction and suggested best practices to largest US client while working on-site to gather requirements, diagnose production issues, and coordinate development between internal, client, and contract developers.

Scott Simontis Consulting

Atlanta, GA

SOFTWARE SYSTEMS ENGINEERING CONSULTANT

2019

- Reduced page load times from 20+ seconds to 2 seconds for a major online retailer suffering outages during peak sales periods. Identified MySQL performance issues responsible and PHP memory leaks after adding APM diagnostics to hosting environment. Reviewed AWS architecture and hardened Linux servers.
- Developed MVP for a social network geared towards primary education faculty using Express, Vue, SCSS, and PostgreSQL.
- Wrote a WPF application to generate visualizations based upon simulation data contained in Excel documents.

Intellinet Consulting

Atlanta, GA

PRINCIPAL CONSULTANT & .NET TEAM LEAD

2019

- Served as enterprise architect for local outbound sales company preparing to end offshore development operations. Presented risks of technical debt, incomplete contingency planning, and lack of documentation to senior leadership. Proposed a new requirements gathering process after conducting user interviews and shadowing sessions with call agents.
- Proposed software architecture to be followed by offshore developers and performed code reviews before integrating code according to GitLab Flow.
- Automated development environment setup using PowerShell scripts.

Regulatory Affairs Professionals Society

Rockville, MD

WEB ADMINISTRATOR & SOFTWARE ENGINEER

2017 - 2019

- Optimized site performance based on performance measurements and analytics data, 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 risks while identifying all Personally Identifiable Information collected by each department and establishing data integrity and retention governance. Automated opt-in mandate by writing a self-service portal in ReactJS communicating with ASP.NET API controllers to allow members to manage communication preferences.
- Conducted usability studies using HotJar, user interviews and Google Analytics data to set development priorities for site, identifying underperforming conversion funnels, and improve user experience.
- Introduced DevOps procedures by automating front-end asset management with GulpJS, setting up build pipeline of CMS backend in Azure DevOps, and refactoring ASP.NET Web Forms pages to use MVP pattern to allow unit testing.
- Documented best practices for Application Lifecycle Management and developed runbooks and best practices for IT department and content editors.
- Developed ASP.NET web parts, REST APIs, C# services and JavaScript components in Kentico 10 to add functionality requested by other departments and integrate with marketing, learning management, and e-commerce systems.
- Supervised and trained content editors and marketing staff on site operations and best practices.
- Wrote user stories and requirements for contract developers, providing architectural guidance and technical oversight as required. Performed code reviews on all third-party code before deploying to site. Coordinated site migration from Ektron to Kentico by managing agency developers, performing QA and System Requirements Reviews to ensure all requirements were met, and writing migration scripts to transfer user data into new systems.

CFSRES Emergency Systems (defunct)

Remote

LEAD DEVELOPER

2015 - 2017

- Modified an open-source Software Defined Radio application written in C to publish incoming messages to multiple backend systems via ZeroMQ.
- Wrote ExpressJS application that streamed real-time emergency dispatches stored in RethinkDB via Socket.io to community residents.
- Designed PostgreSQL database to maintain subscriber info and define users to target with AWS Simple Notification Service SMS alerts.
- Deployed and administered AWS infrastructure.

Intellinet

Atlanta, GA

CONSULTANT

2014 - 2017

- Volunteered to serve as Sitecore Knowledge Manager for company: maintained best practices for solution architecture, content hierarchy design, deployments and site launches, routine maintenance, auditing and tuning tasks, troubleshooting, and upgrade procedures. Participated in 3 successful Sitecore MVC implementations.
- Constructed REST API integration framework to automate API consumption and serialization, handle errors, and retry submission of commands based on HTTP status code.
- 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. Created front-end for item customization 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 from a proprietary system to Great Plains by calling T-SQL stored procedures. Extended GP functionality by authoring ASP.NET Web API endpoints to support time entry and automate payroll processing workflows using Quartz.NET scheduled tasks.

Applied Information, Inc.

Suwanee, GA

SOFTWARE ENGINEER

2012 - 2014

- Developed a Windows Embedded-based digital billboard controller responsible for updating sign output according to content management system. Wrote XML scheduling format schema and algorithm to assemble image queue based on Cron definitions. Selected controller hardware and assembled prototype units. Integrated GPS receivers, cellular modems and video input capture interfaces with controller.
- Supervised overseas development team by conducting code reviews, performing requirements gap analysis and maintaining work items and bug tickets.
- Debugged digital sign controller failures occurring on Z80 microcontrollers running MicroC RTOS.

Delcan Technologies

Suwanee, GA

SOFTWARE ENGINEERING CO-OP

Fall 2010, Summer 2011, Spring 2012

- Simplified testing of backend server components and eliminated hardware procurement costs by creating virtual hardware devices simulating traffic and transportation hardware compatible with federal Department of Transportation NTCIP communication and data protocols.
- Wrote a NTCIP-compliant digital sign emulator which pulled diagnostic data from proprietary vendor devices and created pixel-perfect renderings of messages and graphics created with a custom markup language to upload images controlling output of proprietary displays.
- Created user interface for in-vehicle electronic dispatch system used by Georgia DoT HERO first responders to queue incidents and digitize paper incident reports and inspection forms.
- Created an ASP.NET MVC application which provided control over variable speed limit corridors operated by Oregon DoT. Wrote formal acceptance testing procedures for entire system and tested algorithms responsible for changing speed limits according to lane occupancy, average speed, and traffic volumes.
- Added new serial port drivers to snowplow data collection system running on Windows Embedded devices and provided technical support and bug fixes to clients. Traveled on-site to install hardware and troubleshoot communication issues and perform electrical diagnostics for clients experiencing major software issues.

Open Source Contributions

DEV.TO

<https://dev.to>

CONTENT MODERATOR

May 2019 - PRESENT

- Reviewed articles submitted by site members for relevancy and compliance with site Terms of Use.
- Engaged new members of the community by helping them find topics of interest and answering any questions.
- Flagged inappropriate comments or content and reached out to users to ensure conversations added value to articles and remained on-topic.

Certifications

2015 **Sitecore 8 Professional Developer**, Sitecore

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