

John Anderson

Senior Software Engineer

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Summary

- Senior Software Engineer and frequent team lead with real-world experience in application design, development and testing across industry sectors including energy, health care, finance and cybersecurity.
- Excellent communicator in a variety of formats, from written technical documentation to large-scale group presentations, both in-person and with distributed (remote) audiences.
- Passionate about technical excellence and the finer points of computer science, while delivering solutions that truly meet the customer's need and make good business sense.
- Thrives in environments where technical excellence and out-of-the-box creative solutions are encouraged and rewarded with trust and greater freedom to explore further innovations.

Skills

Server development

I have 10+ years of experience with server development. Here are a few of my favorite things:

- Linux
- Python
- Django
- Fielding, Chapter 5 REST
- bash
- sqlite3
- SQL
- Mercurial
- vim
- gedit
- Apache2
- flake8

I also use these, when appropriate:

- Mac OSX and Windows
- PHP
- MongoDB
- Celery
- AWS boto3
- Docker
- Fabric
- Git
- GitHub
- MS Code
- PyCharm
- nginx
- mysql
- PostgreSQL
- SQL Server
- VB.NET
- JSON
- XML

Front-end development

I have 10+ years of experience with front-end web development (and GUI development, before the web). My preferred technologies include:

- ECMAScript 2016
- HTML5 and CSS3
- Knockout.js
- Bootstrap UI
- Selenium
- eslint

I also use these, when appropriate:

- React with Redux
- Material UI CSS
- jQuery
- SVG
- SCSS and SASS
- Blanket.js
- webpack
- grunt and gulp
- Node.js*
- Hudson/Jenkins/Travis*
- Protractor
- jslint and jscs*
- GIMP
- WebRTC
- *(also back-end)*

Requirements, Projects and Documentation

I have 10+ years of experience with eliciting requirements, managing tasks and projects, and authoring clear, concise technical documentation. In order to contain these beasts, I find these tools helpful:

- JIRA
- Confluence
- Gliffy
- Graphviz
- Sphinx
- Slack
- OpenOffice/MS Office
- QuickTime Screen Recorder

On the Horizon

I am eager to join projects that will allow me to grow in experience with the following technologies.

- **Go (software language)** – Go’s C-like strongly-typed data structures and its asynchronous “go-routines” are super-efficient on bare metal and capable of modeling real-world actors well.
- **React with Redux (and React Native)** – These bring a fresh perspective to front-end (and native) development that promotes high reusability of component parts.
- **Gherkin and Behavior-driven Development (BDD)** – BDD takes test automation to the next level, where humans describe (in English) how a system should function, and robots (automated test programs) execute those specifications, for a repeatable win-win in quality assurance.
- **Server-less cloud deployments (AWS Lambda, Google Cloud Functions, Azure Functions)** – The ability to deploy code without the burden of full infrastructure management promises a greater agility for product iteration and scalability according to business needs.

Recent Experience

Senior Software Engineer, Soltra July 2015 to present*

Core developer on Soltra Edge, the leading cybersecurity information router.

- Proposed forward-looking architectural changes to the application.
- Ensured implementation stayed in compliance with the STIX 1.1.1 and TAXII 1.1 standards.
- Designed and implemented shiny new UI features, soliciting and incorporating feedback from multiple stakeholders, including customer demonstrations.
- Documented “ground truth” on system functionality to inform management, support staff and other customer-facing team members.
- Triaged customer issues on a rotating schedule.
- Built a very popular extension (the “Non-STIX plug-in”) to enable import of a variety of data.

**I started with Soltra in July 2015 as a contractor to DTCC (via TekSystems), then continued as a contractor with NC4 when NC4 acquired Soltra in 2016, and became a full-time employee of NC4 in 2017.*

Principal Software Engineer, Stratus Video, Inc. February 2015 to June 2015

Initial engineer hired to build the next-generation video conferencing solution for the deaf.

- Built automated tests and test infrastructure from scratch, using Jenkins, GitHub commit triggers, Mocha.js/Blanket.js (for front-end JavaScript unit tests/code coverage), Django unit tests and Python coverage, and Selenium (for browser testing). Rolled up all test results into one chart that showed overall tests passing/failing over time.
- Migrated prototype code (purchased from a third party) from poor-quality proof-of-concept code (10K-line HTML file with sloppy JavaScript scattered throughout) to high-quality production-grade code (using principled software engineering practices, such as modules and unit tests).
- Replaced the prototype’s rudimentary 1-to-1 video calling with a multiplexing conference call solution that integrated with IBM’s video multiplexing server (OCWSC).

Senior Software Engineer, CIGNA (via TekSystems) September 2013 to February 2015

Senior developer for MyCIGNA Mobile app back-end web services.

- Enhanced the data translation layer between Java ESB services and lightweight mobile apps.
- Provided design guidance and debug assistance for this team and the Java and Android teams whose systems interacted with our services.
- Led daily stand-up meetings and aggressively tracked issues to ensure they were handled.
- Standardized the deployment process, even to the point of building a bridge for Python Package installation (“pip install”) from Sonatype Nexus, the enterprise artifact repository in use at the time.
- Deployed application updates and triaged critical issues on Production servers, as necessary.

Other Cool Gigs

Web Developer, Discovery Communications (via Centrics) September 2012 to February 2013

Migrated multiple Discovery-owned websites from home-grown PHP Content Management System to Django, with some pixel-perfect UI polishing along the way.

Security Software Engineer, Canonical, Ltd. (direct retainer) January 2011 to December 2013

Built SAML 2.0 support for Django and integrated it for Canonical, so that Launchpad.net and Canonical.com users could authenticate to Salesforce.com and Google Apps using SAML 2.0 Single-Sign On.

Web Developer, Wycliffe Bible Translators (missionary) January 2006 through October 2010

Multiple projects, both internal and public-facing, to support the 7,000+ Wycliffe missionaries in 70+ countries and to provide greater awareness about Bible translation worldwide.

Education

Bachelor of Science in Computer Engineering

Virginia Polytechnic Institute & State University (Virginia Tech)
Blacksburg, Virginia

Personal

- Committed Christian
- Myers-Briggs Personality Type: INTJ “Patient Mastermind”
- Science Fiction novelist and short-story writer
- Electric rock guitarist and song-writer