# Matthew G. Belisle

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#### Job Interests

- Pentesting
- Software engineering
- Japanese to English translation

### Experience

- Staff Security Engineer (Jun. 2018 to present)
  Workiva, InfoSec Team (Remote from Texas, https://wdesk.com)
  - Performed pentesting and wrote POC exploits against a large number of Workiva web apps
  - Performed pentesting and wrote POC exploits against a number of open source applications
  - Developed specialized tools for pentesting Thrift and AMF applications
  - Developed tools for automated bookkeeping of pentest results
  - Assisted in the architecture of authentication and authorization systems
- Senior Software Engineer (Mar. 2012 to May 2018) Workiva, IR Team (Bozeman MT, https://wdesk.com)
  - Wrote a Thrift server in Java that integrates with Microsoft OAuth2 and Fastpath Inc's REST services
  - Wrote a Thrift server in Kotlin that handles graph database API calls
  - Wrote a Python module that renders XML based charts as PDFs, SVGs, and PNGs
  - Wrote AngularJS components for an HTML5 canvas based document viewer
  - Wrote a Go package to deliver typesetting data over a REST interface
  - Migrated many services in Dart, Go, and Java from REST and Websockets to Thrift and NATS
  - Implemented OAuth2 exchanges for many apps, both browser side and server side
  - Wrote a Workiva specific JWT/OAuth2 lib from Go's stdlibs
- Technical Support Engineer (Mar. 2010 to Feb. 2012) RightNow Technologies, Customer Care Department (Bozeman MT, https://rightnow.com)
  - Provided technical support for RNT's proprietary web framework (both PHP and JS side)
  - Provided general technical support for Japanese clients in Japanese
- Web Developer (Dec. 2008 to Feb. 2010) Elance (https://elance.com)
- Japanese to English translator and technical editor (Jun. 2006 to Feb. 2010) Excellence-English Editing (https://excellence-english.com)

### Education

- Undergraduate MSU Department of Computer Science (2006-2009, not yet graduated) (Bozeman, MT, https://montana.edu)
  - Cumulative GPA of 3.64
- Foreign Exchange Kumamoto University Dept. of Mechanical Engineering (2007-2008) (Kumamoto Prefecture, Japan, https://www.kumamoto-u.ac.jp/)
- High School The Oaks Classical Christian Academy (2002-2006) (Spokane, WA, https://theoakscca.org)
  - Graduated with a cumulative GPA of 3.94

#### Skills

- Java, Python, Go, GAE, Datastore, MySQL, HTML5, Electron, Android SDK, and many associated frameworks
- Git, Node, Docker, Grunt, Bower, Gulp, Browserify, and many associated dev tools
- Google Appengine, AWS, and Digital Ocean cloud platforms
- Apache, Nginx, Systemd, Avahi, BATMAN, package creation, and other sysadmin tool sets
- Bacon and crypto library consumption on a weekly basis
- POC exploitation of XSS, CSRF, SQLI, XXE, SSRF, RCE, XSHW, H2 desync, weak crypto, and many other vulns

## Code Sample

https://github.com/mgbelisle/science/tree/master/paxos (paxos from scratch)