Matthew G. Belisle

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Bryan, TX

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, R&D 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, Kotlin, HTML/CSS/JS, Dart, Android SDK, Electron, and many associated frameworks
- MySQL, PostgreSQL, Sqlite, Google Datastore, Redis, Titan Graph DB, and other databases
- Google Cloud, AWS, and Digital Ocean cloud platforms
- Docker, Kubernetes, Helm, Terraform, Cloudformation, and other management tools
- Apache, Nginx, Systemd, Avahi, BATMAN, package creation, and other sysadmin tool sets
- Ribeye steaks and crypto libraries make me happy
- 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)