

# APRIL KING

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<https://grayduck.mn>

[april@grayduck.mn](mailto:april@grayduck.mn)

[github.com/april](https://github.com/april)

Saint Paul, Minnesota

## PROFILE

Staff security engineer who is passionate about making the internet a safer place. Strong experience in application, web and email security, TLS/PKI, key and secrets management, and authentication systems.

## EXPERIENCE

### Staff Security Engineer, LinkedIn — 2024-

- Head security engineer in support of LinkedIn Learning, a multi-billion dollar business inside LinkedIn
- Product security design reviews for dozens of new products across the entire business, including web, mobile, and AI applications
- Large-scale and manual penetration testing, including the support of the bug bounty program and building of DAST tooling and test
- Primary engineer responsible for LinkedIn email security

### Staff Security Engineer, Dropbox — 2021-2024

- Rebuilt and led the Application Security team, revamping hiring process and realigning roles and responsibilities across the security organization
- Led company-wide effort across desktop, mobile, and SDK systems to revamp a decade-old certificate pinning system, averting a \$65M outage
- Created new intake system for security organization, dramatically simplify a previously ad-hoc engagement system and greatly improving the business's engagement with the security org
- Authored over a dozen security policies and standards, across web, email, source control, and DNS, as well as writing the corporate secure coding standards, the SDLC, and annual security training
- Co-designed replacement Dropbox-wide cryptographic storage system
- Improved email security, cutting observed spam rates by over half
- Primary security contact for the Dropbox legal organization, advising the product counsel team and helping to set numerous legal policies
- Worked with Chromium and Firefox teams to mitigate security outages
- Mentored over a dozen junior and senior engineers across the security, privacy, and anti-abuse organizations
- Acted as security advisor to abuse team on matters such as account takeovers, abuse imagery, and authentication systems

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## **Staff Security Engineer, Twitter — 2020-2021**

- Lead engineer on the Information Security Consulting team, providing leadership and mentoring across organization
- Directly responsible for all security review across Twitter Spaces, Twitter Blue, and Twitter Communities features
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- Rewrote and redesigned Twitter security intake process

## **Sr. Staff Security Engineer, Mozilla Corporation — 2015-2020**

- Developed the Mozilla Observatory, a site security testing tool with over 3,000,000 users and 20,000,000 website scans
- Wrote Mozilla's widely referenced [Server Side TLS Guidelines](#), and the corresponding [SSL Configuration Generator](#)
- Redesigned and expanded Firefox's legacy certificate viewer
- Rewrote Mozilla web security guidelines, and [corresponding tooling](#)
- [Coordinated deprecation of the RC4 cipher](#) across the browser industry
- Operated Mozilla's web bounty program
- Designed Mozilla's AWS single sign-on solution ([maws](#))

## **Sr. Information Security Engineer, Wells Fargo — 2002-2015**

- Technical team lead for the largest internal single sign-on system in the world, with over 6M authentications and 15M authorizations per day
- Project and technical lead for bank branch server encryption project, successfully deploying full disk encryption to over 12,000 existing servers across over 6,000 bank branches spread across the US

## **EDUCATION**

- University of Minnesota, Twin Cities — BA, Psychology

## **PUBLIC SPEAKING & PUBLICATIONS**

- Public speaker at over a dozen security conferences, including USENIX Security, Paris Web, nginx.conf, Tech People Present, Shop Talk Show, the EFF Privacy Lab, and PubConf
- Dozens of articles on security topics, such as OAuth, caching, HTTPS/TLS, CSP, and sub resource integrity
- Security resource for publications such as [Consumer Reports](#)