

# Sarai Rosenberg

## Insecurity Engineer

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kerning

## Education

### Haverford College

B.S. with Honors in Mathematics

## Writing

- [Should I Hash Private Data?](#)
- [Supporting Reports Through Trauma](#)
- [Respectful Collection of Demographic Data](#)
- [Designing Products for Abuse](#)

## Employment

### Security Engineer

*PagerDuty – San Francisco, CA*

*April 2018 – present*

- Chef, Terraform, AWS, IAM, vulnerability management, asset inventory, incident response
- Upgraded and refactored Vault cluster for secret management, increased uptime 99.2 to 99.99%
- Designed and built PKI: x509 TLS certificate hierarchy with RBAC for microservices
- Added enforcement for IAM session name from Terraform/Atlantis to verify RBAC on SIEM events
- I led the first end-to-end service security review from design/code review to internal pentesting
- Launched squad-based peer mentorship program
- Mentored junior security engineers
- Led weekly security education, “Hack + Own”
- Led STRIDE/DREAD risk assessment exercise
- Reframed prioritization of projects to balance impact on stakeholder relationships

## Speaking Experience

### Threat Modeling: bootstrapping an attacker mindset for secure software development

- July 2019: [PagerCon](#) SF and Toronto

### Lightning talks:

- Introduction to Security Engineering
- Low-Rank Matrix Approximation
- Continuous Improvement

## Skills

### Technical

- [GitHub](#), AWS, Heroku
- Python, Ruby, Golang, and some Elixir
- Linux, Chef, Vault, Terraform, Docker
- Statistics, Probability, and Risk Management

### Security

- AWS IAM, Cloudtrail, Threatstack, Sumo Logic
- Incident Response, Threat Modeling, PKI
- Design & Code Reviews

### Leadership

- Mentoring, building mentorship programs
- Security Education
- Inclusion, Diversity, and Equity

### Security & Technical Program Manager

*Agiloft – Redwood City, CA*

*January 2016 – October 2016*

- Advised and reviewed security design changes, cipher suite changes, and upgrading deprecated technologies
- Managed a team of 12 to build custom business process management software for clients
- Built automated SQL reports to track KPI
- Managed 30+ B2B and B2D projects
- Led team calls with customer IT and security on configuring granular access control and SSO
- Improved product security for integrations, access, authentication, and auditing

### Security / Analyst / Implementer

*Agiloft – Redwood City, CA*

*January 2015 – October 2016*

- Advised company on relevant security and compliance standards
- Managed security documentation, training, and third-party audits, including NASA
- Launched customer projects, and enhancements to product's default configuration
- ETL, requirements gathering, data models, and wrote algorithms for workflow automation

### Adjunct Instructor in Mathematics

*Los Rios Community Colleges – Sacramento, CA*  
*2008 – 2014*

- Instructed courses such as linear algebra, geometry, precalculus, and discrete mathematics