

Kevin Froman

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Software Engineer in St. Louis, MO

I am a software developer specializing in web backends specializing in security and privacy

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WORK EXPERIENCE

Jr. Security Engineer -- Revenant Data/Neural Earth, Remote

April 2020 - Present

- Conducted deep technical research into storage technology
- Wrote technical documents
- Wrote company-internal tools
- Participated in incident response
- Managed Amazon Web Services (EC2, S3, Textract)

PROJECT EXPERIENCE

Onionr - Decentralized P2P Social Platform.

- Developed full-stack application for secure, private and decentralized communication between devices using Flask and gevent in Python.
- Designed data serialization protocol and network API
- Implemented scalable distributed storage
- Engineered an attack-resistant service manager for web services.

Security Research - [Bug bounties](#) and independent research

- Responsibly disclosed vulnerabilities in various software and web services, including authoring [CVEs](#)
- Researched high security applications, such as [private overlay networks](#)
- Prevented potential compromise of an [MIT app development platform](#) and the email service [Tutanota](#), among others
- Team received second place among 72 teams at the [BSidesPDX2019](#) security CTF

Snow10 - Steganography application and experiment.

- Produced a web and Android app to store encoded/encrypted information inside of another message, using vanilla JavaScript.
- Made Android application version with UX appropriate to the platform
- Brought back the concept of “whitespace steganography” to modern platforms

MicroTXT - Textboard web service software written in PHP.

- Built a ‘textboard’ service with minimalism as a design philosophy.
- Created an easily deployable version to compete with more complicated applications.

SKILLS

PROGRAMMING LANGUAGES

- Python
- Java
- PHP
- JavaScript
- C#/DotNet
- HTML5/CSS3

FRAMEWORKS

- Flask
- Django

DATABASES

- MySQL/SQL
- MongoDB

TOOLS

- Eclipse, VSCode, Visual Studio, Android Studio
- Git
- Linux Servers
- Unit testing, CI
- Linting

Speaking

Improving Anonymous Networking - BSidesPDX 2019

Spoke on privacy overlay networks and improvements

- Implemented a secure cryptographic user ID system known as “tripcodes”.

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Onionr

Education

St. Charles Community College/St. Louis Community College

- Collegiate level courses completed in Python, Java, C# and

C++ — 2017-2018