

Matthew Roseman

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Education

Case Western Reserve University

May 2017 Cleveland, OH
BA in Computer Science
Minor in Mathematics

Coursework

Graduate Level

Digital Image Processing
Cryptology

Undergraduate Level

Logic Design & Computer Organization
Software Craftmanship
Computer Architecture
Computer Networks
Operating Systems
Database Systems
Theoretical Computer Science
Software Engineering
Discrete Mathematics
Linear Algebra

Skills

Languages

· Python · Java · SQL · Javascript
· C++ · C# · C · Golang
· TypeScript

Tools

· Vim · Git · MySQL · Eclipse
· Visual Studio · MongoDB · PostgreSQL
· Kafka · Apache Servers · Android Studio

Frameworks/Libraries

· Jquery · Rails · Flask · ASP.NET MVC
· OpenSSL · Google Chrome Native Client
· D3.js · React-Native · React
· RxJS · Angular · SQLAlchemy · Alembic

Other

· Linux OS's (ubuntu, arch, debian)
· Cryptography · Image Processing
· Blockchain

Links

Github: <https://github.com/mroseman95>
LinkedIn: <https://www.linkedin.com/in/matthew-roseman-63414010b>
Website: mroseman.com

Experience

Certified Security Solutions | Software Engineering Intern working on Certificate

Management System | Independence, OH css-security.com

May 2016-Aug 2016

- Given greater responsibility and shifted entirely into development from testing, while being tasked with more complex and difficult features to implement.
- Work included: modifications to complex databases, changes to backend certificate management, and creating frontend forms and general UI.
- Added ability to specify PFX custom name when creating a certificate by expanding user input and adding Microsoft SDK calls which led to increased PFX customization at creation. This was to satisfy a specific customer request.

May 2015-Aug 2015

- Participated in daily standups with main development team, contributing to decision making and problem solving.
- Quickly learned application structure (ASP.NET MVC framework) and began testing, fixing bugs, and implementing features in the system, improving overall application quality and robustness.
- Tested the certificate identification methods (i.e. cryptographic protocol identification) by creating specialized certificates (such as an RSA signed DH certificate) which led to me finding and fixing flaws in the system.

Awards

Uncommon Hacks | MLH Chicago hackathon 2016 & 2017

- Grand Prize (2016) · Best Security App (2016)
- Grand Prize (2017) · Most Technical Project (2017)

Angel Hacks Cincinnati | Cincinnati Jr/Sr dev hackathon 2016

- Best use of HPE Haven OnDemand machine learning API
- Code4Impact Most Impactful Project

Knurld Hackathon | Global Online Voice-Auth hackathon 2016

- Best Mobile App · Best in Show

Kent Hack Enough | MLH Kent Hackathon 2016

- Grand Prize (unanimous decision)

Personal Projects (can be found on my github)

Crypto-Chat | Chrome Native Client (C/JS) · OpenSSL RSA and AES encryption (C/C++)

Chrome Extension enabling end-to-end encrypted communication along any pre-existing chat channel (Slack, Facebook Messenger, Email, etc.). Goal is to make encryption usable by anyone, even someone with no prior understanding of the inner workings.

GoGoMedia | gogomedia.herokuapp.com | Flask · Angular 4 · PostgreSQL · Alembic

GoGoMedia is a website used for tracking different forms of media a user wants to, is, or has consumed. It's built with a Flask RestAPI backend and Angular 4 frontend. Data is stored in a PostgreSQL database, and SQLAlchemy/Alembic is used with Flask.

Software-Lab | Golang · AWS

Software Lab is a local mirror that lets users at hackathons quickly and easily download commonly used software packages. By setting up a peer-to-peer network locally, downloads become quick and don't clutter the bandwidth with tons of traffic. Used at multiple MLH hackathons.