

# 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 Craftsmanship  
Computer Architecture  
Computer Networks  
Operating Systems  
Database Systems  
Theoretical Computer Science  
Software Engineering  
Discrete Mathematics  
Linear Algebra

## Skills

### Languages

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

### Tools

· Vim · Git · MySQL · Eclipse · AWS  
· 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

### 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](http://mroseman.com)

## Experience

### Kepler51 | Fullstack Contract Software Engineer | Remote | [kepler51.com](http://kepler51.com)

Oct 2017-Present

- Backend development on Kafka database system for tracking and analyzing trucking data
- Wrote Flask server that verifies and adds vehicle data to Kafka database. (wsgi compliant)

### Certified Security Solutions | SE Intern | Independence, OH | [css-security.com](http://css-security.com)

May 2016-Aug 2016 | May 2-15-Aug 2015

- Worked in ASP.NET MVC framework to develop new features, fix bugs, and test, on a certificate management system used by many large companies.
- 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.
- Tested the certificate identification methods by creating specialized certificates (such as an RSA signed DH certificate) leading to 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) · 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.

### Software-Lab | Golang · Vue.js · 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.

### Contact-Manager | React (TypeScript) · Express (JS) · Webpack · MongoDB · AWS

Single Page Application built in React with an Express backend that allows a user to record any connections they make while networking. Includes custom alerts to remind the user of things like following up after an initial email. Can easily add custom fields to contacts, and update their details at any time.