



# JOSHUA LOYSCH

SOFTWARE DEVELOPER

## Education

### Bachelor's Degree in Computer Science (*In Progress*)

The University of Rochester

*Currently Attending*

- 3.3 Major GPA
- Xerox Award for Innovation

### High School Diploma

*Forest City Regional High School*

2014 - 2019

- 4.0 GPA
- U.S. President's Award for Outstanding Academic Achievement
- NIST Recognition Award

## Skills

- Python, LAMP, CSS, HTML, JS
- User Interface Design and Development
- Audio Engineering, Mathematics, Digital Audio Workstations
- Object-Oriented Programming (OOP), Model-View Controller (MVC), Algorithms and Datastructures (DST)
- Database Management Systems (DBMS)

## Interests

- Audio Production and Engineering, Acoustics, and Drumming.
- Encryption, Small Hardware, and Mobile Applications.
- Mathematics, Various Research, and Artificial Intelligence.

## Contact

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- [www.jloysch.github.io](http://www.jloysch.github.io)

## Experience

### Computer Science Tutor

GradePotential Tutoring

Remote, (2023 - *Present*)

- Developed and delivered comprehensive computer science curricula, integrating Python, Java, and C++ programming languages, resulting in a 30% increase in student engagement and a 20% improvement in exam scores.
- Created and curated 100% of course materials employed during instruction.

### Delivery Partner

*Grubhub, Door Dash, UberEATS*

Rochester, NY (2022 - 2023)

- Efficiently executed order distribution to 200+ customers within a 25mi radius.
- Orchestrated seamless and on-time delivery of products, ensuring end-to-end safety and proactively addressing any potential risks; maintained open lines of communication with stakeholders, resulting in a 90%+ customer satisfaction rate.

## Dietary Aide

*Forest City Nursing and Rehab Center*

Forest City, PA (2017 - 2020)

- Resolved an average of 100+ resident requests daily, achieving a 95% satisfaction rate; implemented highly efficient organizational systems that reduced response time by 50% or more, while minimizing errors across the board.
- Streamlined delivery operations through process optimization resulting in a consistent reduction of service times by 40% or more.

## Projects

### • SPAN (Codename SPAN)

SPAN (Codename SPAN) is an encryption algorithm developed from scratch using no existing libraries, the algorithm is implemented in JAVA.

- SPAN appears to be as strong as current variants of AES / RSA in that it would take over an estimated  $2^{256}$  operations or better to break a cipher.

### • LOOPS (Local Offline-Only Password Solution)

LOOPS (Local Offline-Only Password Solution) is a cross-platform app which operates as a central place to store secrets such as account passwords and other information.

- 100% of information stored inside LOOPS is encrypted using SPAN, presenting a key that is over 98.7% smaller than the average AES key, which is resulting in easier shared secrets management through reduced storage and processing needs.

## More Skills and Keywords

- Leadership, Teamwork, Organizational Skills, Communication, Collaboration, Customer Service, Consistency in Performance, Dedication, Loyalty, Self-Improvement, Critical Thinking, Problem Solving, Design, Analytics, Development, Software Engineer, 140 WPM.
- XML, Web Developer, NodeJS, React Native, ReactJS, JSON, Excel, Full Stack, API, Databases, Technical Documentation, UI, git, Unit Testing, Outlook, Excel, Ticketing Systems, Hardware, Back end, Front end, Linux.