**Email** [maxluoxiii@gmail.com](mailto:maxluoxiii@gmail.com)  
**Phone** 630-432-3267Maxiwell Luo913 Ashford Lane  
Westmont, IL 60559

**EducationUniversity of Illinois at Urbana-Champaign**Bachelor of Science, Computer Science + Master of Computer Science  
GPA: 3.69/4.0

**Hinsdale Central High School**Valedictorian  
GPA: 5.93/5.0Urbana-Champaign, IL  
Graduation: May 2021

Hinsdale, IL  
August 2013 – May 2017

**Relevant Courses**Machine Learning (IP), Computer Security II (IP), Applied Parallel Programming (IP), Interactive Computer Graphics, Programming Languages and Compilers, Algorithms, Top Down Video Game Design, Game Dev Process, Communication Networks, Computer Security I, Algorithms & Models of Computation, UI Design, Probability and Statistics, System Programming, Applied Linear Algebra, Numerical Methods I, Computer Architecture, Data Structures

**Work ExperienceEagle Seven, Software Development Intern**— Wrote software to calculate network performance metrics of high-frequency trade engines  
— Improved the automation, comparison, and real-time tracking capabilities of the performance testing framework through InfluxDB and Grafana to drive future development

**Fermilab, Application Development and Systems Analyst**Designed and developed a modern web application in Angular to interface with an instrument calibration database

**Fermilab, Software Intern**  
Using C, implemented and analyzed the effectiveness of data compression algorithms for use in data collection during experimentsChicago, IL  
May 2019 ­– August 2019

Batavia, IL  
May 2018 – August 2018

Batavia, IL  
June 2016 – July 2016

**ProjectsHackIllinois**Cooperated in a team to implement a desktop drawing/messaging application modeled on the DS software PictoChat in Python

**neuralMario**Implemented a NEAT algorithm to create an AI that could play Super Mario World

**Black Lung**Developed a short third-person action game in Unreal Engine with a group of peers Urbana-Champaign, IL  
February 2018

Hinsdale, IL  
May 2017

Westmont, IL  
2016

**ActivitiesUIUC SigPWNy**— Collaborated with peers to teach one another computer security topics and techniques to exploit security vulnerabilities  
— Competed in in-house and outside

**Robotics Team**— Designed and built robots to compete in the FIRST Robotics Competition on team DevilStorm Robotics  
— Trained new members in fundamental programming techniquesUrbana-Champaign, IL  
2017 – Present

Hinsdale, IL  
2013 – 2017

**SkillsProficient** in C/C++, Java, Python

**Intermediate** knowledge of Verilog, HTML/CSS, Javascript (Angular), InfluxDB, Grafana, Unity, Unreal Engine, WebGL

**Basic** skills with Rust, OCaml, x86 Assembly