

# Albert Li

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## SKILLS

- Program Languages: Java, C/C++, Python, JavaScript, CSS, HTML/XML
- Operating Systems: Linux, MS Windows
- Other: Data Structures, Algorithms, Virtual Machine, MS Office (Excel, PowerPoint etc.)
- OSHA certification of Computer Hardware and Network Equipment
- Certificate of proficiency in Computer programming and web development

## EDUCATION

UMASS Lowell, Lowell, MA

Computer Science Major, Kennedy College

Class of Spring, 2023, GPA 3.7/4.0

**Courses:** Operating Systems, Mobile Programming, Organizational Programming Languages, Computer Architecture, Foundations of Computer Science, Analysis of Algorithms, Computer Networking, Assembly Language Programming, Principles of Microeconomics

## PROJECTS / WORK EXPERIENCE

### Web Development

- Internship for Berlin Conservation Commission in Berlin, MA in 2019
- Developed web pages for the committee within Berlin township
- Designed with HTML/JavaScript/CSS

### Information Technology Advisor

- Tutoring senior citizens to learn modern technologies in Hudson Senior Center from 2014-2018

### Markov Model of Natural Languages

- It's a simulation app approximating the statistical structure of natural language based on Markov Chain.
- The AI like app predicts sequence of characters and strings based existing context
- Written in Java and developed on Linux

### N-Body Simulation

- It's an animation application with sound of Universe in Motion over time
- The application heavily relies on Physics to calculate force, mass and velocity etc.
- Developed in Java on Windows

### Image Encoding using Linear Feedback Shift Register

- It's a program to encrypt and decrypt of images with Linear Feedback Shift Register algorithm
- Written in C++ on Linux

### Ring Buffer and Guitar Simulator

- It's a simulation app of sound waves played by guitar
- It also makes sound waves of a drum
- Developed in C++ and Linux