

# Lawrence Wu

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**College:** Penn State, University Park • **Graduating:** May 2018 • **GPA:** 3.47 • **Minor:** Security and Risk Analysis

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## Summary - Skilled Programmer, Linux System Administrator, Internet Folklife Archivist

Since my high school years in Diamond Bar, CA, I have been a skilled programmer with Python and Java and had strong experience managing Linux servers for myself and others. I entered Penn State University in 2014 in the College of IST to further my programming skills, and joined an undergraduate research program to apply them. At Penn State, I've worked on software research projects, built a promising startup with a fellow student, managed Linux servers for a professor, and developed some unique electronic equipment. I've also entered into the *Integrated Undergraduate/Graduate Program*, which will provide me with both a Bachelor's and Master's Degree by May 2018.

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## Skills

- Software implementation, design, and programming, standalone or leading a team.
  - Skilled Linux System Administrator (*4 years*)      Red Hat Enterprise Linux/CentOS, Debian/Ubuntu
  - Python (*6 years*)      • Java/C# (*6 years*)      • MySQL/PostgreSQL      • Git/Github
  - RPM Packaging      • C/C++      • HTML      • Systemd
  - SQLAlchemy ORM      • Bash Scripting      • Docker Containers      • SELinux
  - Regular Expressions      • Nginx Webserver      • Amazon AWS (Cloud)      • IPtables/Firewalld
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## Experience

- Lynk Education: Head of Technology**      BETHESDA, MD      *Oct '15 – present*
- Co-founded this startup at Penn State to produce a Course Management System (CMS) for Montgomery County Public Schools (MCPS) aiming to replace Edline.
  - Developed and hardened the Linux server, technical design, the SQL database, and the API backend.
  - Brought together a programming team to construct the CMS over the summer in Python and SQL.
- Penn State IST: Learning Assistant for a Java Course**      STATE COLLEGE, PA      *Aug '16 – present*
- Working as a learning assistant and grader for an intermediate Java programming course (IST311).
  - Guide students on how to accomplish development projects from the perspective of a former one.
- Penn State IST: Linux System Administrator**      STATE COLLEGE, PA      *May '16 – present*
- Employed by a Penn State professor to manage, update, and harden their Linux Server.
  - The server is an Amazon AWS instance with Red Hat Enterprise Linux, running their webapp.
- Pacific College: SONISWEB Consultant**      COSTA MESA, CA      *June '15 – Aug '15*
- Assisted the migration of Pacific College to a new College Management System, SONISWEB.
  - Developed Coldfusion/SQL templates to generate college accreditation reports.
- FIRST Robotics Competition (3473 Team Sprocket)**      DIAMOND BAR, CA      *Nov '14 – Dec '14*
- Served as a lead Java programmer for the Diamond Bar High School Robotics Team.
  - Competed in the 2014 FIRST Robotics Competitions held at Las Vegas.
- Cyberpatriot: National Youth Cyber(security) Education Program**      DIAMOND BAR, CA      *Sep '13 – Dec '13*
- Competed in the Air Force Association's Cybersecurity program on a Diamond Bar High School team.
  - Personally coached my team members to harden a Linux server, with firewalls and user/group permissions.
- BASLQC Libreboot Laptops: Proprietor**      *Oct '14 – May '15*
- Produces Libreboot ThinkPad laptops, certified by the FSF to protect your freedom.
  - Produced, flashed, and sold a small amount of handmade refurbished laptops.
  - Hardware BIOS flashing is used to replace internal proprietary software with an open source BIOS.
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## Published Research

- Natural Shell: Research Assistant**      STATE COLLEGE, PA      *Oct '14 – May '15*
- Worked under the Penn State Undergrad Research program with a professor and graduate student.
  - A system for conversion from structured Natural Language to Bash/Csh/DOS shell scripts.
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## Open Source Software Contributions

- Bibliotheca Anonoma: Chief Archivist**      GITHUB.COM/BIBANON      *Jan '12 – present*
- Founded this Internet Folklife Archival organization to archive, analyze, and share internet culture.
  - Produced website scrapers with members to archive data off of aging websites to store on the Internet Archive.