

Liheng Yi

CS Master student has status, looking for internship.
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EDUCATION

Northeastern University, Silicon Valley, CA

Sep 2023 – May 2025

Master of Computer Science

Related Courses: Mobile& web development, data visualization,

Concentration: Software Development.

Oregon State University, Corvallis, OR

Jan 2021 – Aug 2023

Bachelor of Computer Science

Concentration: Software Development& cyber security.

Provost's Excellence Merit Scholarship for top 10% students, \$6,000 a year.

EXPERIENCE

Software Development Engineer Intern, Beijing, China

May 2023 - Aug 2023

Knownsec, Inc.

- Improved recruiting efficiency by **8%** through targeted web hosting and advertising among undergraduate communities using **RAG modeling** with **Python, Django, MySQL** and **AWS EC2**.
- Reducing 80% manual effort on product release by streamlining the process with testing in **Git workflow**, dockerizing and versioning the code, managing images with **AWS ECR** and hosting with **Terraform** and **Kubernetes**.
- Expanded hiring pool by **30%** through onboarding 6 hiring agencies to the website by enabling **RESTful APIs** with **Django** and async workflow with **Celery** in **Python**.
- Supported **99%** uptime with integrated **CI/CD release pipeline** and observability tools like **Prometheus** and **Datadog**.

Oregon State University, Corvallis, OR

Sep 2022 - Aug 2023

Teaching Assistant

- Conducted in-depth online research for course materials with professors, including "Cybersecurity intro", "Database Management System".
- Provided timely FAQ, grading, and hosted office hours for over **120** students per class. Achieved a **15%** higher student engagement rate compared to other sessions.

PROJECTS

GIS-based-Tool-for-Disaster-Recovery, ArcGIS Pro Toolboxes and web-map.

Sep 2022 - Jun 2023

<https://github.com/Jaron-U/GIS-based-Analysis-Tool-for-Disaster-Recovery>

- Potential to save thousands of lives by enabling fast evacuation route planning under extreme conditions by leveraging **GIS** data from Geofabick, navigation feeds with **Google Map API** and **Python** toolbox in **ArcGIS Pro**.
- Ensured reliability through **unit tests** with **Pytest**, integration tests, functional tests and load tests with a custom Python tester with **http** and **Tinker**.
- Bullet proofing the service by supporting **99.99%** uptime, with observability tools like **Prometheus**, **Grafana** and extra redundancies with replicas, **multi-region** and **multi-clouding**.

Home-Designer, order system for interior design company.

Feb 2023 - Jul 2023

- Boosted client engagement, and operation stability with custom home designer solutions using **Django**, **webhooks**, and **MariaDB**.
- Digitized the archiving of design artifacts and customer data with a self-hosted solution using **Django**, **Poetry**, **docker container** and **AWS ECR**.
- Ensured smooth integration and product stability with **CI/CD** pipeline involving unit tests, **Git workflow**, and **dockerized test runner**.

TECHNICAL SKILLS

- Python, JavaScript, Dart, C++
- Git, Docker, AWS(EC2, Dynamo DB, S3, Lambda), GCP, Kubernetes
- React, HTML5/CSS3, Bootstrap
- Express, Node.js, SQLite, REST APIs, MongoDB