

Luye (Sunday) Zhou

luyez@andrew.cmu.edu | [My GitHub](#) | [My LinkedIn](#) | U.S. Permanent Resident | Seeking 2022 Software Engineer Internship

EDUCATION

Carnegie Mellon University

Pittsburgh, PA

Bachelor of Science in Information Systems, double major in Computer Science, minor in Machine Learning (expected)

May 2023

- GPA: 3.89/4.00 (College Dean's List with high honors)
- Relevant Coursework: Fundamentals of Programming (Python); Data Structures (C); Probability Theory; Statistical Inference, Concepts of Mathematics; Database Development (SQL); Software Construction and Concurrency (Java); Functional Programming (SML); Developing Apps for iOS (Swift); Mobile App Development [*Incoming TA*]; Machine Learning [expected]; Computer System [expected]

WORK EXPERIENCE

Oracle Cloud Infrastructure

Seattle, WA

Software Engineer Intern

May 2021 - Aug. 2021

- Designed, implemented a process automation tool for OCI internal Compliance team using **SQL**, **HTML**, **CSS**, and **JavaScript**
- Used Oracle APEX to develop features such as dashboards, dynamic reports, administration tab, user authorization and authentication
- Wrote **SQL procedures and jobs** to integrate and pull data from JIRA tickets using **Jira API**
- Helped cut down ~100 Confluence pages and hundreds of excel sheets, shortened stakeholders' task completion time by 60% on average, created a single secure repository for all data across entire OCI; presented to OCI VP of Engineering

LittleMoochi Inc.

Pittsburgh, PA

Product Management Intern

May 2020 - Aug. 2020

- Applied Agile management method, conducted 10+ customer interviews, defined 40+ user stories and portfolios, supported 2.0 version release
- Identified the goal of **backend recipe recommendation system** – factors include mealtime, cooking difficulty, healthy level; researched various **machine learning models** (Generative Pre-training, BERT etc.) and stabilized accuracy around 86%

CMU CS Academy

Pittsburgh, PA

Technical Content Creator

Jan. 2020 - Aug. 2020

- Developed 20+ data visualization and art CS animated projects to explain basic CS data structures and concepts using **Python** for non-profit platform which provides free CS online courses tutorials to global high school students
- Co-led 3 training sessions for 24 teachers; provide consultation about platform features for 40,000 accounts

PROJECTS

0.99 | <https://point99.app/>

Remote

Project Lead & Full Stack Developer

Jul. 2020 - Present

- Co-initiated the project, led, and collaborated with 2 designers and 5 engineers to build a web-based platform that enables college students to efficiently navigate career-related information and connect with young professionals
- Implemented User Registration and Post Editing with **JavaScript**, **HTML**, **CSS**, and framework **React**, **Django**, **Relay GraphQL**, **EditorJs**; practiced good software development principles, including component reuse and information hiding
- Planned all aspects of MVP release; coordinated testing readiness and user data analytics; reached out to 40 excellent content creators

Google CS Research Mentorship Program - E-commerce & Economics Area

Remote

Participant

Jan. 2021 - May 2021

- Read and discussed papers regarding the interdisciplinary of Computer Science & Economics, specifically investigated **Multi-Agent Reinforcement Learning**, Auction, Policy Making with an incredible mentor and fabulous peers
- Defined a research problem to study whether information sharing helps form better collective behavior in collaborative and competitive settings

Restaurant Reviews Data Visualization Framework

Pittsburgh, PA

Project Engineering Lead

Apr. 2021

- Designed, implemented, and presented an extensible black-box data visualization and analysis framework which is used to load and analyze restaurants' cost, wait time, rating, review count and restaurant reviews publish date and comment using **Java**
- Designed multiple layers of abstraction using Object Model and System Sequence Diagram
- Implemented three independent **data load plugins**- **CSV reader**, **Yelp API**, **Zomato web scrape**; and three independent **data display plugins**- bar chart, bubble chart, scatterplot using various open-source third-party libraries
- Utilized **Google Cloud's sentimental analysis** to generate objectivity score for restaurant reviews
- Wrote **95% coverage JUnit tests** for core components and automate the testing process using tools like **TravisCI**, **SpotBug**, **CheckStyle**

Déjà vu Vintage Camera Filters

Pittsburgh, PA

Individual

Nov. 2019 - Dec. 2019

- Developed 10 colored and black & white filters which mimic color themes of master paintings such as Mona Lisa; and features like blur, sharpen, vignette, saturation levels adjustment, image rotation and mask application with the use of **Python**, **SKimage**, **TKinter**
- Supported features like abstracting color palette from an uploaded image and applies it to any other images with the use of **NumPy** and **PIL**

SKILLS

Programming Languages: Java, Python, C, SML, Ruby, Swift, HTML, CSS, JavaScript, SQL, R

Frameworks & Tools: Bootstrap, React, Django, Ruby on Rails, PostgreSQL, MongoDB, REST API, Agile, RStudio, Adobe XD, Adobe, Figma

Interests: playing the piano with my five-year-old tiny hands, hiking and landscape photography, watching MasterClass, playing Texas hold'em