

# XUAN YOU (XY) LIM

Currently looking for software engineering internships in 2021 & full time opportunities in 2022.  
Particularly experienced in data wrangling/ETL process with Python and data visualization with D3.js.

## EDUCATION

- PRESENT**  
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SEP 2017
- **B.S., Computer Engineering + B.A., Journalism**  
University of Washington  
• Expected Graduation: December 2021  
📍 Seattle, WA
- SEP 2018  
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JUL 2018
- **Level 3 Cadet**  
42 School Silicon Valley  
• Passed beginner-level exam in C and learned Linux system and network admin tools.  
• Recreated from scratch a library of standard C functions e.g. atoi, strcpy, strcat etc.  
• Implemented memory leak-free function that reads lines from multiple file descriptors with Valgrind usage.  
📍 Fremont, CA

## SELECTED PROJECTS

- DEC 2020  
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SEP 2020
- **Hate In America - Data Visualization Project**  
CSE 442: Data Visualization  
📍 University of Washington  
• <https://cse442-20f.github.io/FP-Hate-in-America/> - Data visualization story illustrating the trends of hate crimes & shortcomings of the data, awarded best use of Scrollytelling.  
• Wrangled data using Pandas library with Python and implemented force-directed bubble chart with Scrollytelling and choropleth map with D3.js.  
• Led a team of five on the narrative direction and data visualization techniques.
- OCT 2020  
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OCT 2020
- **Artbuddy - Collaborative Editor**  
Dubhacks Hackathon 2020: Team Project  
📍 Seattle, WA  
• Developed a collaborative text editor during a 24-hour hackathon using Convergence API with Javascript and Vue.js.  
• Learned and integrated Convergence API for backend data synchronization.  
• Integrated frontend Vue.js code with backend Javascript for deployment.
- JUN 2020  
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MAR 2020
- **FCC Internet Complaints Map**  
COM 461: Data Reporting  
📍 University of Washington  
• A complete solution to gather data from API and produce data visualization to present trend and location of FCC internet complaints.  
• Developed Python script to query FCC's API and translate coordinates to county.  
• Implemented animated bubble map using D3.js showing origins of complaints by month.
- JUN 2019  
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MAR 2019
- **Maze Generator & Solver**  
CSE 373: Data Structures & Algorithms  
📍 University of Washington  
• Developed maze generator with Kruskal's algorithm and data structures such as hash dictionary, disjoint set, graph and more in Java.  
• Developed maze solver using Dijkstra's algorithm to find the shortest path.  
• Practiced pair programming for multiple programming assignments.
- MAR 2019  
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JAN 2019
- **Indexer, Query Processor & Search**  
CSE 333: Systems Programming  
📍 University of Washington  
• Implemented a multithreaded web server to process query using C++.  
• Developed a file parser to index text files based on words to allow search using C.

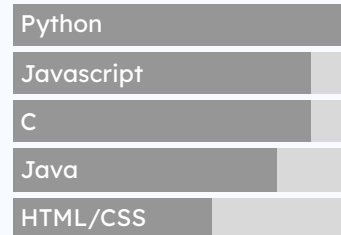
## CONTACT

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in xuanyoulim  
🐦 @xuanyoulim  
🔗 [github.com/xuanyoulim](https://github.com/xuanyoulim)

## RELEVANT COURSEWORK

Data structures & Algorithm  
Systems Programming  
Database Systems  
Web Programming  
Artificial Intelligence (AI)  
Data Visualization  
Embedded System  
Networks

## LANGUAGE FAMILIARITY



## MORE INFO

See full resume at  
[github.com/xuanyoulim/cv](https://github.com/xuanyoulim/cv).

Made w/ [pagedown](#) & [Lexend](#)  
Source code:  
[github.com/xuanyoulim/cv](https://github.com/xuanyoulim/cv).  
Modified from:  
[github.com/nstrayer/cv](https://github.com/nstrayer/cv).  
Last updated on 2021-02-09.

MAR  
2018  
|  
JAN  
2018

## Engineering Design

ENGR 105: Introduction to Engineering Design

📍 University of Washington

- Designed circuit and soldered electrical components for a dual-motor robot.
- Programmed Arduino to coordinate movement and control of motors and servo with signals from ultrasonic and infrared sensors.



## SELECTED EXPERIENCES

PRESENT  
|  
MAY  
2018

### Campus Tour Guide

Office of Admissions

📍 University of Washington

- Leading 75 minutes group tours with up to 50 prospective students and parents weekly.
- Responsible for welcoming guests, representing the university in a positive manner, presenting student life on campus, and answering questions about the university.

PRESENT  
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SEP  
2017

### Staff Writer

The Daily at the University of Washington

📍 University of Washington

- Writing short to medium length articles published in Science and News sections.
- Pioneered a column covering student entrepreneurs and their stories (StartDubs).

DEC  
2020  
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SEP  
2020

### Context Team Lead

DRG - Journalism in Mis/Disinformation Beat

📍 University of Washington

- Directed Research Group led by Melinda McClure Haughey, guided by Prof. Kate Starbird.
- Ran SQL queries to extract tweets from PostgreSQL database for data analysis.
- Collaborated with journalists to fulfill requests of social media data analysis, directed team meetings, and wrote paper analyzing journalism coverage of QAnon conspiracy.

DEC  
2020  
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SEP  
2018

### Resident Advisor

Housing and Food Services

📍 University of Washington

- Engaged and supported 60 - 70 residents to develop an inclusive and cohesive community within apartment-style residential living.
- Responded to crisis situations which included reaching out to resources and working collaboratively with supervisors to follow up and documenting.

SEP  
2019  
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JUN  
2019

### Editorial Intern

Premier Media Group

📍 Greater Seattle Area, WA

- Produced and wrote medium length profile stories biweekly covering businesses on the Eastside which are published in 425 Business magazine.
- Wrote short web stories weekly which are published online.
- Involved in research, interview, writing, editing, and fact-checking processes.

JAN  
2019  
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SEP  
2017

### Avionics Team Member

Society of Advanced Rocket Propulsion (SARP)

📍 University of Washington

- Drafted Preliminary Design Report (PDR) for Ground Control module including specification and budget plan.
- Assisted in design and development of ground control module.
- Involved in networks and communication team.

MAR  
2018  
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OCT  
2017

### Student Dining Staff

Housing and Food Services

📍 University of Washington

- Responsible for serving espresso beverages, packaged and prepared food.
- Managed espresso stand and operated cash register.

MAY  
2017  
|  
JAN  
2017

## IT Intern

Justlogin Pte. Ltd.

📍 Singapore

- Automated onboarding process by developing Excel template with Macros.
- Created and tested test cases for bugs/new features on the Quality Assurance team.
- Responsible for onboarding new customers through preparing Excel files, communication with customers and providing customer support over Zendesk.