


Julia Shuieh

Contact

julia.shuieh@gmail.com 

(408) 707-2917 

Cupertino, CA 

jshuieh.github.io 

linkedin.com/in/juliashuieh 

Education

Georgia Institute of Technology

M.S. in Computer Science

Specialization in Machine Learning

Aug 2022 - May 2024 (Expected)

Carnegie Mellon University

B.S. in Artificial Intelligence

Minor in Psychology

3.87 GPA · Aug 2019 - May 2022

Coursework

Machine Learning, Deep Learning

Computer Vision, Search Engines

Cognitive Robotics, Scalability in ML

AI: Representation & Problem Solving

Parallel & Seq. Structs & Algorithms

Designing Human-Centered Software

Skills

Languages

Python · C/C++ · C# · Java · HTML/CSS

Bash · Powershell · Lua · R · JavaScript

Tools and Technologies

Tensorflow · PyTorch · Pandas · React

AWS · Jupyter · Git · Azure · JIRA

Soft Skills

Problem Solving · Team Leadership

Adaptability · Communication

Organizations

Connected Experience Lab

Augmented Perception Lab

Rewriting the Code

Honors

Dean's List with High Honors

Palantir Women in Tech Scholarship

Class Valedictorian

Hobbies & Interests

Education · Robotics · Video Games

Theater · Traveling · Food · Music

Industry Experience

Software Engineer Intern

Meta · Menlo Park, CA · May 2022 - Aug 2022 (Expected)

Software Engineering Intern - Productivity Engineering

Roblox · San Mateo, CA (Remote) · May 2021 - Aug 2021

- **Tools:** Sourcegraph, Github Actions, Drone, Grafana, CI/CD, JIRA
- Developed a CI system for Sourcegraph batch changes to incorporate code review process and decrease onboarding time for new users.
- Led the launch of the system with documentation, testing, and metrics.
- Investigated and configured company tools to migrate microservices from Drone CI workflows to Github Actions.

AI Research Intern

Belle AI · Cambridge, MA (Remote) · Dec 2020 - Mar 2021

- **Project topics:** NLP, CV, Decision-Making, Game Design
- Designed and proposed innovative, full-fledged AI solutions according to clients' needs by researching the literature for current technologies.
- Collaborated with technical leads and interns to write detailed proposals.

Software Engineer Intern - EUC

VMware, Inc. · Palo Alto, CA (Remote) · Jun 2020 - Nov 2020

- **Tools:** PowerShell, C#, Python, WPF, Azure, Jenkins, Git, JIRA, Bugzilla
- Created a modular framework for automated testing of command line and UI functionality for installers used in various Windows OSes.
- Organized daily tests with extensive logging of results and causes of errors that helped catch many installer issues throughout updates.
- Added new functionality and fixed usability issues for installers.
- Wrote scripts to parse MSI/MSP file information for patch creation.

Research and Teaching Experience

Research Assistant

CoEx Lab · Pittsburgh, PA · Jun 2021 - May 2022

- **Tools:** Python (PyTorch, Pandas, Flask), JavaScript (React), Figma, Trello
- Lead the design and development of a web app to help freelancers write proposals, incorporating techniques to shrink the gender wage gap.
- Iterated on machine learning models for recommending rates based on current freelancer rates, profiles, and job market.
- Organized and led participatory design workshops to understand freelancers' perspectives and adapt our tools appropriately.

Teaching Assistant - Introduction to ML (10315)

CMU Machine Learning Dept. · Pittsburgh, PA · Jan 2022 - May 2022

- **Topics:** Neural Networks, SVMs, Regressions, Boosting, Clustering
- Teach recitations to a class of 150 students to reinforce ML concepts by covering practice problems and real-life applications.
- Design, test, and grade course assignments and exams.
- Answer student questions through office hours and Piazza.

Instructor

AI Camp · Palo Alto, CA (Remote) · Sep 2021 - May 2022

- **Topics:** Python, Machine/Deep Learning, CV, NLP, Data Science, RL
- Teach AI topics in weekly 1:1 sessions through lessons and projects.
- Guide students through data collection, training, and deployment to make ML products that solve real-life problems based on their interests.
- Mentor students to help them become independent learners and determine their future career paths.