Julia Shuieh

Contact

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Education

Carnegie Mellon University

B.S. in Artificial Intelligence

Minor in Psychology

3.84 GPA · Aug 2019 - May 2022

Coursework

Intermediate Deep Learning

Computer Vision & Search Engines

Introduction to Machine Learning

AI: Representation & Problem Solving

Parallel & Seq. Structs & Algorithms

Designing Human-Centered Software

Research Methods in Cognitive Psych.

Modern Regression

Skills

Languages

Python · C/C++ · C# · Java · HTML/CSS

Bash · Powershell · Lua · R · JSON

Tools and Technologies

PyTorch · Scikit · Statsmodels · Pandas

Git · Unity · Azure · WPF · CI/CD · JIRA

Soft Skills

Problem Solving · Team Leadership

Adaptability · Communication

Organizations

Society of Women Engineers

Rewriting the Code

Facebook Above & Beyond CS

SCS4ALL

Honors

Dean's List with High Honors

Palantir Women in Tech Scholarship

Class Valedictorian

Hobbies & Interests

Teaching · Robotics · Video Games

Theatre · Traveling · Food · Music

Experience

Research Assistant

CoEx Lab · Pittsburgh, PA (Remote) · Jun 2021 - Present

- **Tools:** Python (PyTorch, Statsmodels, Scikit, Pandas, Flask), Bootstrap
- Design negotiation tools for online freelancers, incorporating techniques and strategies to help shrink the gender wage gap.
- Iterate on machine learning models for rate-setting based on current freelancer rates, profiles, and job market.
- Research and design further studies on freelancer platforms, communities, and difficulties in negotiation and rate-setting.

Instructor

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

- **Topics:** Python, Machine/Deep Learning, CV, NLP, Data Science, RL
- Teach AI topics online 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.

Software Engineering Intern

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**
- Researched current technologies and papers to design and propose innovative, full-fledged AI solutions according to clients' needs.
- 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.
- Setup 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.

Software Project Lead

FIRST FRC Team 2473 · Cupertino, CA · Oct 2016 - Jun 2019

- **Tools: Java (WPILib), Python (NumPy, SciPy, Tkinter), Raspberry Pi, Git**
- Programmed robot driving code with joysticks for competitions.
- Collected and analyzed LiDAR sensor data for corner detection.
- Developed robot code architecture for safe error handling in runtime.
- Created an interactive display to showcase our robot and team.
- Communicated effectively with team members and other project leads to create a complete, coherent product on schedule.
- Mentored new members to train and integrate them into the team.