

Junxi Li

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EDUCATION

University of California at San Diego | Major & Minor Courses GPA: **4.0/4.0** Sep 2022 – Jun 2025

Major: Computer Science & Math | Minor: Cognitive Science–Specification in **ML & AI**

Relevant Coursework: **OOP** and programming skills with Java (A+), **Data Structure & Algorithm** (A+), Computer & System(A+), Mathematical **Induction**(A), Multivariable Calculus (A+), Linear Algebra (A)

Stanford Online & DeepLearning.ai | Passing Score: 100/100

Jun 2023 - Sep 2023

Skills: Build and Train Neural Networks, linear & logistic regression, K-means clustering, and decision tree.

SKILLS | [Credentials](#)

Language: Advanced: Python, Java, Javascript, CSS, HTML **Intermediate:** C/C++, SQL

Tools-Advanced: Linux, Django, Angular, Redux, git, Opencv , docker, vim, Numpy

Tools-Intermediate: Tensorflow, redis, Shell/Bash, React, Pandas, Scikit-learn, Apache Spark

PROFESSIONAL EXPERIENCE

Undergraduate Researcher, UC San Diego SuperComputer Center, San Diego, CA

Oct 2023 - Cur

- Applying Network Telescope to analyze time-series data and detect anomalies in Global Network Data.
- Run Flow Tuple analysis on Network Telescope data with Apache Spark to detect and forecast potential DDoS attack and Internet wide scanning.

Software Engineer Intern, Jayu Rewards, San Diego, CA

Oct 2023 - Cur

- Use Angular to design and develop a CRM app, Integrate Stripe API to complete the client payment page.
- Rebuilt old customer management page to enable sorting customers by keys, provides better user experience
- Learned agile development skills, project management using Azure, as well as branch control using git.

Software Engineer Intern, Mercury Health, San Diego, CA

Apr 2023 - Sep 2023

- Integrate Computer Vision with Convolutional Neural Networks in detecting clients' states;
- Revise the triggering logic for alerts to ensure the accuracy of alerts sent to clients.
- Collaboratively develop a GUI to create easier access for people with no coding knowledge and implement functions to generate testing & training data with Opencv, increasing the model's average confidence rate to 90%
- Apply Data Augmentation on fallen data to enlarge the current dataset for training to secure clients' privacy and manage data with S3 on Amazon Web Service to get rid of slow file transmission and speed up the general testing speed over 10 times.

AP Computer Science Tutor, TestDaily, Shanghai, CN

Feb 2022 - May 2022

- Deliver online lectures with 76 students recognized as the recipient of the prestigious "Most Valuable Tutor"

PROJECT

Organizer & Software Developer, Shooting Game | (<https://bit.ly/45qllaX>)

Jun 2023 - Cur

- Learn Linux&Docker which allows developing directly on the cloud that avoids bugs in deployment, acquiring proficiency in Django and authoring a sophisticated game engine using JavaScript.
- Self-learn **Web Socket** and implement multiplayer mode and real-time chatting function to gain popularity.

Founder & Software Developer Anonymous Online Forum

Jun 2021 - Sep 2022

- Build an online forum for students and gain 8000 views and 200 registered users.

Student Researcher, Carnegie Mellon University

Jan 2021 - Mar 2021

- Conduct extensive research on the LSTM model, scrutinizing its efficacy in long-term forecasting
- Conduct comparative analysis between LSTM, SVM, and Transformer models in predicting Google stock prices, Achieve significant model refinement, reducing error to an impressive 0.79([recognition from IEEE](#))

HONORS AND AWARDS

USA Computing Olympiad algorithm competition | Silver.

Jan 2022

American Mathematics Competition(AMC12) | Top **5%** International.

Nov 2021

LEADERSHIP & INTERESTS

Founder & President of Information & Media club | **Captain** of Basketball Club

Interests & Role: *Innovative Technologies, Machine Learning & Generative AI, Web Development.*