

# Spencer Stice

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## Education

**University of California, Los Angeles (UCLA) - Henry Samueli School of Engineering** Los Angeles, CA  
*Master of Science in Computer Science* October 2024 - June 2025 (Expected)  
Focus on computer architecture and AI/ML, TA for embedded ML IoT class, ML researcher

**University of California, Los Angeles (UCLA) - Henry Samueli School of Engineering** Los Angeles, CA  
*Bachelor of Science in Computer Engineering and Mathematics, GPA 3.901* October 2020 - June 2024  
Graduated with honors, IEEE-HKN membership chair, mathematics minor  
Coursework: Algorithms, OS, Architecture, DL, Computer Vision, NLP, Blockchain, Game Theory, Graph Theory

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## Skills

**Programming Languages:** Python, Java, C++/C, SystemVerilog

**Technologies/Concepts:**

Discriminative + Generative ML (Tensorflow, PyTorch, MLP, CNN, LSTM/RNN, GAN, VAE, Transformers, LLMs, Diffusion), Genetic Algorithms, Kalman Filters, FPGAs, Blockchain (Byzantine Broadcast/Agreement, PoW, PoS, Smart Contracts, Selfish Mining, Secure Multi-Party Computation)

**Libraries/Tools:**

Matplotlib, Numpy, Pandas, Huggingface, Weights and Biases, Git, Linux, Postman, Intel Quartus Prime, ModelSim

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## Research Experience

**UCLA Large Scale Machine Learning Group (BigML) Lab** Los Angeles, CA  
*Skills: Fine-tuning LLMs, Nvidia GPUs* April 2024 to Present  
-Researching techniques to prevent LLMs from losing their RLHF alignment during task-specific fine tuning  
-Evaluating ideas from neural network interpretability and pruning to preserve the model alignment

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## Industry Experience

**AI Research Intern: Perceptronics Solutions** El Segundo, CA  
*Skills: Tensorflow, Neural Networks, Control Theory (Kalman Filters), Research* June 2023 - September 2023  
-Conducted review of research papers in search for a potential solution to a location accuracy problem associated with an embedded positioning chip  
- Implemented one such paper, improving location accuracy in GPS-denied environments by over 55% using an RNN to perform time series forecasting of the expected location error and correcting for it

**Software and DDR5 Memory Engineer Intern: Intel Corporation** Folsom, CA  
*Skills: DDR5, Python, Genetic Algorithms* June 2022 - December 2022  
-Performed post-silicon validation on server-grade DDR5 DRAM and wrote a genetic algorithm in python to find optimal duty cycle adjust settings to minimize electrical jitter before validating, reducing the average search time by ~80% and discovering settings with ~50% less electrical jitter than previous methods  
-Conducted over 13,000 jitter distribution tests to assess the program's performance potential, leading to the submission of an invention disclosure form at Intel

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## Projects

**Quill: ChatGPT-powered Chrome Extension**

*Skills/Technologies: OpenAI API, Startups*

- CEO of 4 person startup building a Chrome extension integrating ChatGPT into the web browser
- Attained over 700 users, pitched to co-founder of Google AdSense and other prominent LA VCs for seed funding

**EEG 4-Class Motor Classification via Recurrent and Convolutional Networks**

*Skills/Technologies: PyTorch, RNNs, CNNs*

- Designed and implemented various NN architectures to classify EEG data into 4 classes of motor activity
  - Performed hyperparameter tuning and experimentation with various architectures to optimize performance
  - Achieved 69.3 % test accuracy using a convolutional network with L2 regularization
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