Srihan Vege

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EDUCATION

Purdue University | West Lafayette, IN **Aug 2025 - May 2028**

B.S. in Computer Science, Mathematics

Relevant Courses: Elem Linear Algebra, Programming 1, CS Tools, Multivariable Calculus, AP Calculus BC, AP Physics C, AP Computer Science A, AP Computer Science Principles, AP Biology, Neural Network Architecture, Machine Learning Theory, Deep Learning Theory

TECHNICAL SKILLS

Languages: Python, Java, Javascript, CSS, HTML, SwiftAI

Libraries: NumPy, Panda, Matplotlib, OPRO, Anthropic API, PyTorch, MONAI

Models: SynergyNet, TotalSegmentator, CNN, LLMs

PROJECTS

RAG Sports Bot | SwiftAI, Python **August 2025**

- Building a Retrieval Augmented Generation (RAG) chatbot using SwiftAI and Python to generate and answer NFL statistics questions from large scale datasets

EXPERIENCE

Algoverse | Palo Alto, CA **August 2024 - April 2025**

Machine Learning Researcher

- Built a multi-turn LLM framework with prompts that help reduce accuracy degradation due to sycophancy by 43%
- Designed and implemented static and rationale based feedback pipelines to stimulate human like interactions
- Co-first authored paper + presented at NAACL SRW conference

Northwestern University | Chicago, IL **June 2024 - February 2025**

Machine Learning Engineer - Bagci Lab

- Built a CNN model that enables radiologists to accurately determine the peak enhancement point of an aortic scanning
  - Predicted time of peak enhancement and actual time were off by a mode of 0.3 seconds, a 97% reduction from previous test results
  - Improved prediction accuracy by 50% on 272 CT scans, reducing error from 200 to 100 HU (measure of radiodensity in CT scans)
- Second-authored paper (submitted to IEEE EMBC) + patent pending

FireFly EDU 501(c)(3) | Aurora, IL **June 2023 - Aug 2024**

Co-Founder and Vice President

- Led the development of an organization that aims to deliver education and financial resources to underprivileged youth in India
  - Led Heal Paradise, a school for underprivileged and disabled youth students aged from 5 to 15 years old on topics that consist of Computer Science, Math, Biology, English, and Physics
- Built an executive team that consists of VPs of Marketing, Finance, and External Relationships Chair

Stanford ML/Molecular Imaging Fellowship | Palo Alto, CA **June 2023 - August 2023**

Research Student

- Was taught under Dr. Frezghi Habte about the implementation of AI/deep learning in molecular imaging techniques
- Walked through Nuclear Imaging tools and the benefits that CNN and RNN models are bringing to the PET, MRI, and SPECT