John S. Cost

Contact

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A senior at Carnegie Mellon University specializing in machine learning and biology. I have hands-on experience in machine learning and software engineering. My technical experience is complemented by a broad interest in cancer and aging, as well as more specialized technical experience with computational biology and genomics problems. In addition to my interest in human health, I am deeply passionate about the transformative potential of biotechnology in revolutionizing sustainable agricultural practices and material goods. I believe computational and engineering approaches have massive potential for the enhancement of food security and in addressing environmental challenges, fundamentally reshaping our relationship with the natural world. **Really, I'm passionate about being a part of great solutions to serious problems!**

Education

• Senior, Carnegie Mellon University, Pittsburgh, PA BA in Biology, Computational Biology

Graduating Spring 25'

Interests

Passionate about problem-solving and computation. Love algorithms, and finding best solutions.

- · Exploring the applications of artificial intelligence in biotechnology.
- · Cancer, aging, computational genomics approaches to improving agricultural practices and material goods.

Courses

Discrete Mathematics	Spring 23'
 Data Structures and Algorithms 	Spring 23'
 Computational Biology Simulations and Algorithms 	Fall 24'
 Biology and Chemistry Wet Lab 	Spring, Fall 24'
Graph Theory, Graph Learning	Fall 24'
 Physics, Genetics, Cell Biology, Omics, Biochemistry 	—Fall 24'
Experience	
 Undergraduate ML Researcher, Benam Lung Microengineering Lab 	
Researcher	Summer 24'
 Implementing ML techniques, including those related to optical flow, tem and object recognition. 	poral sequence modeling,
 Designed and implemented entire project workflow, including data preprocessiv result interpretation. 	
 Trained and implemented object recognition pipeline and corresponding result a 	nalysis package.
 Al Summer Scholars Program, Carnegie Mellon University Instructor 	Summer 23'
 Lead summer program covering model architectures and development Instructed students in AI concepts and supervised practical projects 	
Member Services, Pumpkin Ridge Golf Course Manager	Spring 19' - 21'
 Public facing role requiring leadership skills 	
Skills	
 Programming: Python, C, HTML / CSS, JavaScript, Bash/Shell scripting 	
Machine Learning: Neural Networks, TensorFlow, NumPy, PyTorch, Model Architectu	res
Software Development: version control (Git), agile methodologies, thorough documer	ntation

- Wet lab skills— Aseptic technique, Cell Handling
- · CAD— Fusion360, Solidworks, Blender