Thomas Glezen

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Education

UC Berkeley
May 2021
B.A. in Computer Science
GPA: 3.1

Coursework

Undergraduate
CS 61B: Data Structures
CS 61C: Machine Structures
CS 161: Computer Security
CS 170: Algorithms
CS 182: Deep Neural Networks
CS 184: Computer Graphics
CS 186: Databases
CS 188: Artificial Intelligence
CS 189: Machine Learning
EE 126: Probability and Random Processes
EE 127: Optimization
Stat 140: Probability
Stat 135: Statistics
Data 100: Data Science
Data 102: Data, Inference, and Decisions

Skills

Programming
Proficient in:
Python • NumPy • pandas • PyTorch • SQL

Also coded in:
R • Java • C • Bash • HTML • Swift • JS

Tools
Vim • Jupyter Notebook • Intellij

Other
Git • LaTeX
Docker • Debugging

Links

Github:// **tcglezen**
LinkedIn:// **tcglezen**
Website:// **tcglezen.com/**
Stackoverflow:// **tcglezen**

Experience

Loak Software Engineer
Aug 2020 – Present | Berkeley, CA
- Designed new interface for the iOS app for Loak using Swift.
- Resolve dependency issues and wrote documentation for future employees.

Lab Assistant | CS61B (Data Structures)
Aug 2018 – Dec 2018 | Berkeley, CA
- Taught students implementation of data structures.
- Helped students with project design and code debugging.

Projects

Path Tracer
Project revolving around light modeling of 3D images.
- Implemented camera ray generation so camera can generate 2D image given a 3D world and a direction/location
- Built a volume bounding hierarchy system to optimize rendering time for tracing path of light rays of 3D models.
- Coded bidirectional scattering distribution function which calculates how light reflects off of different types of surfaces.
- Programmed the model so that it can efficiently trace bounces after a hundred bounces.
- Further optimized the project in order to better perceive light coming from a single source point.

IBM Good Tech Scholars Program
- Designed a project which improves virtual education.
- Integrated IBM Cloud for storing video data and transcript.
- IBM Watson for speech to text transcription and sentiment analysis.
- Implemented Bootstrap for visual improvements.

Language Recognition
- Developed a convolution neural network to detect language of sentence.
- Parses sentence word by word in order to understand what language the sentence is in.
- Performed with 83% accuracy