Thomas Glezen

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Experience

Loak Software Engineer Intern

Aug 2020 – December 2020 | Berkeley, CA

- Collaborated with team to improve Loak's iOS app.
- Designed UIUX for Loak's on boarding process.
- Connected Firebase and Loak iOS app to display available products.
- Posted ads on Facebook and analyzing data from users who came from Facebook ads.

Lab Assistant/Tutor | CS61B (Data Structures)

Aug 2018 – December 2019 | Berkeley, CA

- Lab assistant for students taking data structures (CS61B) at UC Berkeley.
- Demonstrated to students how to use git and resolve their git issues.
- Instructed students on how searching algorithms such as Dijkstra and A* work as well as how to implement them.
- Taught students the concept run time complexity and demonstrated how to calculate run time complexity of algorithms.

Projects

Path Tracer

Feburary 2021 – April 2021

- Project modeling light rays of 3D images using C++.
- 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.
- Implemented adaptive sampling in order to better perceive light coming from a single source point.

Language Detection

November 2020 – December 2020

- Developed neural network using NumPy that processes sentences and predicts its language.
- Modeled a naive recurrent neural network which intakes a word at each input layer.
- Applies Ensembles and dropout in order to avoid overfitting.
- Performs with an 83% accuracy on testing data.

Education

UC Berkeley

Expected Graduation: May 2021

Computer Science Major

Coursework

Undergraduate

Data Structures (Tutor)
Machine Structures
Computer Security
Algorithms
Deep Neural Networks
Computer Graphics
Databases
Artificial Intelligence
Machine Learning
Probability and Random Processes
Optimization
Probability
Statistics
Data Science
Data, Inference, and Decisions

Skills

Programming

Python • NumPy • pandas • SQL • C++

PyTorch • R • Java • C • Bash • HTML • JS

Tools

Vim • Jupyter Notebook • Intellij

Other

Git • LaTeX
Docker • Debugging

Links

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

Extracurricular

Student Association for Applied Statistics (SAAS)
Computer Science Mentors (CSM)
Computer Science Student Association (CSUA)