Gilad A. Schneider

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Work Experience

MassLight – Software Engineer **July, 2023 – Present**

- Working on a headless EHR called zapEHR.

GreenTree – Full Stack Engineer **May, 2022 – November, 2022**

- Developed a website (1800 lines of code) using an HTML/CSS/JavaScript frontend, Python/Flask backend, and MySQL database.
- Employed Bootstrap, TailwindCSS to streamline development and enhance user experience.
- Deployed the web application using Heroku.

4n6 Research – Undergraduate Research Assistant **May, 2021 – May, 2022**

- Contributed to the composition of a research paper published in IEEE-DASC (2022) that proposed and implemented an innovative technique to reduce the memory requirements of neural networks by up to 6000%.
- Created a novel method to reduce training time of neural networks, resulting in 500 lines of Python code and a comprehensive 10-page technical report outlining the research and results.
- Programmed neural network architectures including Transformers, Residual Networks, and Convolutional Networks using Python.

Skills: Python (SciPy, Pandas, PyTorch, Flask, PyGame), React, Typescript, SQL, HTML, CSS, Java, C, R, Linux, Git, LaTex, Neural Networks, Numerical Methods, Nonlinear Programming

Education

Rutgers University – Double Bachelor's in Computer Science, Mathematics **May, 2023**

- Summa Cum Laude, 3.97 GPA, Dean's List every semester, Student Excellence Award
- **Relevant Coursework:** Data Structures, Algorithms, Machine Learning, Multivariable Calculus, Linear Algebra, Numerical Analysis, Statistics, Graph Theory, Optimization, Real Analysis

Independent Projects

Tasty Bytes **Summer 2023**

- Built a feature-rich web application with an HTML/CSS/JavaScript frontend, Python/Flask backend, and mySQL database.
- Designed and implemented a user-friendly interface allowing users to add, edit, and delete recipes, along with browsing, searching, and viewing existing recipes.
- Successfully created a comprehensive recipe database with storage for recipes' titles, descriptions, images, ingredients list, and preparation instructions.

Machine Learning Principles: Patching Holes **Fall 2022**

- Coded Neural Network, Decision Tree models using Python (800 lines of code) to accurately reconstruct blacked-out 300x300 pixel regions in images.
- Implemented gradient descent, back-propagation, correlation calculation, and highest expected information calculation algorithms for successful training.
- Leveraged an ensemble of models, employed Bootstrapping to generate realistic-looking images.