

Ludwig Lechtreck

706-351-2744 | lechtreck.ludwig@gmail.com | github.com/LFLATH

EDUCATION

Georgia Institute of Technology

Bachelor of Science in Computer Science, **Expected Graduation:** May 2026

Relevant Coursework: Data Structures and Algorithms, Linear Algebra

GPA: 4.0

EXPERIENCE

Front of House Team Member | Maepole:

Jun 2021 – July 2022

- Worked with customers to fulfill their orders
- Communicated with coworkers to make sure line was running smoothly
- Prepped ingredients and prepared dishes for customers

PROJECTS

Pathfinding Algorithms CLI (Go)

- Implemented several pathfinding algorithms, including Dijkstra's, BFS, and DFS using Go
- Created an algorithm to generate obstacles for the algorithms using Perlin Noise procedurally

SnakeJS (HTML, CSS, Javascript, NodeJS, Express, Passport, Heroku, MongoDB)

- Used Javascript, HTML, and CSS to create a front-end version of Snake.
- Created a database using MongoDB Atlas which stored user information
- Implemented a user authentication method with Passport and Bcrypt
- Developed the backend and routing with NodeJS and Express
- Deployed the full stack application on Heroku

Personal Site (HTML, CSS, Javascript, React)

- Used React, HTML, and CSS to create a personal site
- Hosted the site on GitHub-pages
- Can be found at <https://lflath.github.io/Portfolio/>

Tomato AI (Python, PIL, Numpy)

- Labeled a large dataset of tomato images with their ripeness
- Built a neural network to classify the images based on HSV values
- Tested the network on a dataset of over 100 images with an over 95% accuracy

Technologies and Languages

- JavaScript, Python, HTML, CSS, Go, Matlab, Java, C
- Git, React, Numpy, Python Image Library, Beautiful Soup, NodeJS, Express, Passport, Bcrypt, Gin

Skills/Interests/Clubs

- German, Linux, Windows, macOS, MongoDB
- Programming Languages, Compilers, Functional Programming, Basketball
- Dependently Typed (Programming Languages and Compilers Club)

Awards

- Valedictorian - Clarke Central Highschool, Class of 2022