Sunny Huang

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Available January - June 2023

Education

Northeastern University   **September 2020 – May 2024 (Expected)**
Khoury College of Computer Science | GPA: 3.8/4.0   *Boston, MA*
B.S. in Computer Science, Minor in Mathematics

Relevant Coursework
- Fundamentals of Software Engineering
- Machine Learning 1
- Computer Systems
- Artificial Intelligence
- Networks and Systems
- Object-Oriented Design
- Algorithms and Data
- Introduction to Graph Theory

Technical Skills

Languages: Python, TypeScript/JavaScript, HTML/CSS, Java, Scheme, C, Assembly
Tools: Git, VS Code, Visual Studio, IntelliJ, Eclipse, Adobe Photoshop, Figma
Technologies/Frameworks: React, NodeJS, PyTorch, MongoDB, NextJS, Prisma, Postgres, JUnit, Jenkins

Work Experience

Advanced Micro Devices (AMD)   **January 2022 – August 2022**
Design Automation Co-op   *Austin, TX (Remote)*
- Coordinated with the automation team to develop and enhance tools that streamline the process of analyzing and plotting data from S-Parameter files (Python)
- Developed a version control tool to help engineering teams from offices in Atlanta, Austin, Markham, Santa Clara, and Singapore easily submit and access necessary files and models (Python, Powershell)
- Utilized Jenkins and ETX to submit jobs to LSF and work with AMD's remote Linux servers

Northeastern University   **September 2021 – December 2021**
Teaching Assistant for Discrete Structures   *Boston, MA*
- Assisted professors for the honors section of Discrete Structures consisting of 180 students
- Supervised recitations with professors, answering questions and grade students' work from these recitations
- Graded various challenge problems given exclusively to honors students throughout the semester
- Held weekly office hours with a particular focus on honors questions mentioned above

Extracurricular

Generate - Software Engineer | *Typescript, NextJS, Prisma, Express, React, Postgres*   **September 2022 - Present**
- Collaborated with a team of engineers and designers to deliver products to local startup companies each semester
- Implemented a feature in the Breathing.ai Chrome extension allowing users to connect a wearable device and send health data to the extension for analysis (Fall 2022)
- Designed and developed the backend of Boxy's website using Prisma and NextJS to support AirBNB-like renting and listing of temporary storage space (Spring 2023)

ASL Character Recognition | *Python, PyTorch, Tensorflow*   **December 2022**
- Collaborated with small group to train and compare models that can recognize American Sign Language (ASL) characters pulled from the ASL MNIST Database
- Trained three different Neural Networks–Feed-Foward, Convolutional, Convolutional with dropout layer–using train-test split and k-folds validation methods for a total of six models
- Optimized each model and compared the results to determine the highest accuracy model

Mispel | *JavaScript, MongoDB, Express, React, NodeJS, VS Code*   **July 2022 – September 2022**
- Collaborated with other students to create an online web game designed to improve the players' spelling skills
- Used Figma to create blueprints and React and TailwindCSS to design and build the front end of the website

Image Editor | *Python, Python Image Library (PIL), PyQt, VS Code*   **May 2022 – July 2022**
- Developed a simple image editor with various image filters as well as support for saving and loading images and projects
- Implemented a Model-Controller-View design pattern using PyQt for the frontend and PIL for the backend
- Implemented drawing feature that allows for a similar, simplified layered drawing experience to that of Photoshop
- Designed a seam-carving feature, which allows for content-aware downsizing of images