Steven Trujillo

strujillo6686@sdsu.edu | 408-768-4002 | San Jose, CA | Github

Education

San Diego State University San Diego, CA
Bachelor of Science: Computer Science, Cumulative GPA: 3.63 Aug 2021 - Dec 2024

- **Coursework:** Computer Organization, Data Structures, Artificial Intelligence, Machine Learning, Computer Architecture, Operating Systems, Advanced Programming Languages, Principles and Techniques of Data Science

Skills

Programming Languages: C++, Java, Python, R, MIPS, Haskell, Prolog, Matlab
Web Development: HTML, CSS, Javascript
Tech: Eclipse, Pycharm, CLion, Git, Mars, Rstudio, VSCode, Github, Git, Visual Studio, Docker, Cmake Projects, Jupyter Notebook
OOP Design and Development, Data Structures and Algorithms, Software Development Life Cycle, Distributed Systems

Experience / Projects

Software Engineering Internship KLA | (Back-End) May 2024 - August 2024
Work Project | C++

- Explored and researched different distributed messaging frameworks such as KAFKA & ZeroMQ
- Tested latency, throughput, and other metrics on different distributed systems
- Worked to build an application on top of the distributed messaging framework for high speed data transfer
- Deployed the application to the company cluster for further testing and proof of concept
- Compiled all the research to deliver a recommendation backed by tested results on a messaging framework

Image Captioning AI | (Front-End, Back-End) August 2023 - January 2024
AI Club Project | Python | Github

- Utilize hugging face blip image captioning model and retrained it to better suit the needs of the project
- Designed a website with stream-lit open-source app framework to host the retrained model in a user interface
- Second iteration the model was built from scratch using tensorflow transformers on 30 thousand images

Lower Case Letter Identification | (Back-End) May 2023 - August 2023
Personal Project | Python | Github

- Built a Neural Network from scratch that uses image processing to analyze images (Computer Vision)
- Implemented Relu & Softmax activations, Categorical Cross-entropy loss and Adam optimizer functions
- Sourced all the data for training and testing, model performance was 98% accuracy and 0.2 loss

Portfolio Website | (Front-End) November 2023 - January 2024
Personal Project | HTML / Javascript | Website

- Designed a static website that links together my projects, contact information, and resume
- Used GitHub pages to host the webpage through a repository with unique domain name

Multi-threaded Delievery Service | (Back-End) January 2024 - May 2024
School Project | C++

- Implemented a delivery service using pthreads library that consumes request from a bounded buffer
- Different types of producers could send in messages and different delivery services would be able to consume
- Mutex / semaphores utilized to ensure data integrity between the different processes

Leadership & Activities

- Artificial Intelligence Club
- SHPE Club