

Dylan Huynh

903-600-0703 | Austin, TX | dylanhuynh@gmail.com | baolong281.github.io

EDUCATION

The University of Texas at Austin

Bachelor of Science in Statistics and Data Science, Minor in Computer Science

GPA: 4.0

May 2027

EXPERIENCE

Undergraduate Researcher

UT Austin Department of Data Science

October 2024 – Present

Austin, Texas

- Researched and developed statistical tests for monotonicity, optimizing the runtime of a simulation study from **1 month to 1 hour**.
- Designed and built a Shiny app allowing users to upload data to generate visualizations and do surrogate marker analysis.

Web Development Intern

KVRX 91.7 FM

October 2023 – Present

Austin, Texas

- Oversaw migration from GitLab to GitHub and CI/CD pipeline adjustments using GitHub Actions.
- Maintained Django codebase, fixing crashes in EC2 and writing unit tests for site with **5000+** monthly visitors.

PROJECTS

Jupyter Copilot | *Python, Typescript, Websockets, LSP*

July 2024

- Reverse-engineered GitHub Copilot and re-implemented it for Jupyter Notebooks to get **1000+** active users.
- Achieved near-instant AI completions for enhanced user productivity.

MiniCLIP | *JAX, Python, Vision Transformers*

September 2024

- Re-implemented OpenAI CLIP and SigLIP models to enhance multimodal learning in vision and NLP applications, achieving **8%** faster inference speeds.
- Built a 3D web app with Three.js to view embeddings using PCA and UMAP dimensionality reduction.

Boxes.io | *Go, Redis, Docker, Three.js*

July 2024

- Engineered a high-performance connection manager in Go, able to handle **5000+** concurrent WebSocket connections.
- Leveraged Redis for state management, ensuring scalability and fault tolerance.
- Containerized with Docker and deployed on Oracle VPS with full CI/CD for quick development iteration.

Overleaf Copilot | *Typescript, React, OpenAI API*

May 2024

- Developed a Chrome extension for Overleaf with AI-generated content and autocompletion features.

Sillygrad | *C++, CUDA*

December 2023

- Designed a tensor library with backpropagation support in C++.
- Implemented CUDA support, achieving **10x** performance improvement over CPU.

Hypatia.ai | *Typescript, MongoDB, Google Cloud*

October 2023

- Built a full-stack AI-powered collaborative note-taking app, winning HackTX 23.
- Deployed a LLaMA inference server for AI content generation using Google Cloud.

LEADERSHIP

Vice President

Longhorn Sports Statistic

November 2023 – Present

Austin, Texas

- Created workshops on statistics and machine learning in sports.
- Led workshops on data analysis using Pandas, scikit-learn, and matplotlib for **30+** members.

SKILLS

Languages: C++, C, Java, Python, Typescript, Javascript, Go, HTML, CSS, CUDA, R

Technologies: PostgreSQL, MongoDB, MySQL, Pytorch, Next.js, React, Pandas, Tensorflow, Scikit-Learn, REST API

Developer Tools: Docker, Git, Linux, Azure, GCP, AWS, Oracle Cloud