Eliot Laidlaw

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(401) 749-5971

Education

Brown University
August 2018 – December 2022

- ScB in Computer Science

Technical Experience

Blip Labs - Full Stack Engineer
August 2019 – Present

- Leading development of several projects to help streamline the bill payment process.
- Using React Native, Node.js, Next.js, Python for ML models, and third-party APIs including Plaid and Basis Theory.

Amazon - Software Development Engineer Intern
May 2021 – August 2021

- Developing distributed, high-availability systems as part of the Amazon Kinesis Data Streams (KDS) team.
- Designed and implemented a new billing architecture for KDS that reduced outages and saves ~$500K per year.

Brown University - Research Assistant
May 2020 – December 2022

- Conducting computer vision and robotics research with Profs. James Tompkin and Stefanie Tellex

Brown University - Head Teaching Assistant
January 2020 – May 2021

- Selected as TA for CSCI 1430 Computer Vision (spring '20, HTA spring '21) and CSCI 1470 Deep Learning (fall '20)
- Creating slides, developing robust autograder test suite, holding office hours, and grading 300+ students' work

Publications

Yiqing Liang, Eliot Laidlaw, Alex Meyerowitz, Srinath Sridhar, and James Tompkin. **Semantic Attention Flow Fields for Monocular Dynamic Scene Decomposition**. *ICCV 2023*.

Benjamin Attal, Eliot Laidlaw, Aaron Gokaslan, Changil Kim, Christian Richardt, James Tompkin, and Matthew O'Toole. **TöRF: Time-of-Flight Radiance Fields for Dynamic Scene View Synthesis**. *NeurIPS 2021*.

Eliot Laidlaw, Austin Sumigray, James Tompkin, and Stefanie Tellex. **Improving Remote Environment Visualization through 360 6DoF Multi-sensor Fusion for VR Telerobotics**. *HRI 2021*.

- Nominated for Best Late Breaking Report.

Acknowledged in ECCV 2020 paper on 360 degree real-time view synthesis for contributions to the rendering system.

Projects

smartFAT

- Built fully automatic timing (FAT) system for track races using computer vision
- System outputs when each runner crosses the finish line (filtering, RANSAC line fitting) and the number on their hip sticker (multiple CNNs)

Jacosta the Skoolie

- Converted a school bus to an RV, completing numerous carpentry, electrical, plumbing, and other projects (See our instagram).

Other Experience

SBUDNIC CubeSat

- Leading software and electronics team for SBUDNIC CubeSat mission aiming to redefine how quickly a satellite can be built using terrestrial, off-the-shelf parts (see sbudnic.netlify.app)

Brown Running Club - Captain

- Managing 50+ athletes, planning events, overseeing training, responsible for $10,000+ budget

Orange Guava Passion - Alto Saxophone

- Shared management responsibilities and played saxophone in student band. Amassed over two million Spotify streams and frequently paid $400+ to play at regional venues.

Skills and Interests

Programming languages and technologies: Python, C, C++, C#, Java, Racket, JavaScript, MATLAB, HTML/CSS, jQuery, React, React Native, Django, Pyret, SQL, AWS, Unity, ROS

Other skills: graphic design, 2D and 3D CAD (Autodesk Inventor), robotics, 3D printing

Interests: river rafting, distance running, bicycle touring, maker projects, cooking, hiking, video games