

# DAVIN LAWRENCE, M.S.

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## SKILLS

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- AI Research and Engineering
- Full Stack Developer
- Python, Golang, Typescript, C/C++
- Natural Language Processing
- Automatic Speech Recognition
- AWS and GCP deployment
- Gitlab CI/CD and Github Actions
- Agile and Waterfall Development
- Clear Communicator and Collaborator

## WORK EXPERIENCE

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**Vibe Video** July 2023 - May 2024  
*AI Engineer* Remote

- Orchestrated and engineered serverless AWS infrastructure for generative AI pipeline, slashing latency by 75% over initial prototypes.
- Deployed AI training infrastructure on both AWS and GCP for fine-tuning generative models, minimizing costs for early development.

**Silicon Labs** May 2022 - Oct 2022  
*SQA Intern* Austin, TX

- Engineered benchmarking system for embedded devices, creating centralized performance metrics repository to improve decision-making.
- Innovated partial emulation and memory forwarding techniques of peripherals using Avatar2 and QEMU to accelerate fuzz testing.

**Texas Inventionworks** Jun 2021 - Aug 2023  
*Digital Infrastructure Lead* Austin, TX

- Guided students through diverse software projects, enhancing operational efficiency and fostering skill development of students.
- Transformed internal dashboard into comprehensive equipment tracking system, leading custom integrations with commercial services.

**Smartish** Jun 2020 - Dec 2020  
*Process Automation* Austin, TX

- Constructed robust ETL pipeline utilizing Selenium and Excel, integrating external data to reports, enabling data-driven decision making.
- Designed system to move reporting from shared Excel files to centralized cloud-based solutions, simplifying internal tooling.

**Austin Community College** Mar 2019 - Dec 2020  
*CIS Tutor* Austin, TX

- Built initial online tutoring portal in response to COVID-19 pandemic to allow for seamless transition of tutoring services for students.
- Mentored students in Python and C++, foundational computer science skills, Linux, and cybersecurity to bolster student success.

**Secondbrain** Dec 2016 - May 2018  
*Co-Founder / DevOps / Project Management* Austin, TX

- Architected and implemented DevOps infrastructure, leveraging a GitLab CI/CD and Rancher to facilitate deployment processes.
- Optimized research resources, enhancing model training by implementing SLURM and localizing model development with Docker images.

**Switched On** May 2015 - Dec 2017  
*Manager* Austin, TX

- Orchestrated supply chain management, liaising with vendors and customers to optimize inventory levels and streamline the sales floor.
- Streamlined equipment troubleshooting, conducting diagnostics and partnered with repair team to expedite customer repair turnaround.

**deehuck** Aug 2012 - Jun 2021  
*Professional DJ / Event Producer* Austin, TX

- Managed client needs and expectations, maintaining clear communication from planning through execution to ensure client satisfaction.
- Collaborated seamlessly with multiple vendors (e.g. venues, caterers, etc) to orchestrate cohesive, successful, and memorable client events.

## EDUCATION

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**University of Texas** 2020-2024  
*BS/MS Computer Science* Austin, TX

**Austin Community College** 2008-2010  
*AAS Audio Engineering* Austin, TX

## PROJECTS / CV

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**Resonating Visuals: Generative AI Strategies for Capturing the Essence of Music in Image Form** Read Master's Thesis

- Researched and developed methods for generating images by extracting semantic information from musical inputs.
- Collected and Curated custom academic data set of music-image pairs through distributed collection and processing of music videos.

**Improving Dataloaders for Visuomotor Imitation with Robomimic** Read Report

- Performed academic research under direction of industry researchers to reduce bottle necks in robot learning.
- Systematic comparison of data strategies in PyTorch resulting in 33% increase in efficient loading of multi-modal datasets.

**Yet Another Computer Go (YacGo)** Source Code

- Recreated Alpha Go Zero to train AI agent to play Go to weak-amateur level using EfficientViT.
- Implemented colocation of multiple agents on a single GPU via ZeroMQ to efficiently utilize and saturate consumer-grade resources.