Greater New York Area

(203) 993-4503

alexfcannan@gmail.com

Education

Brown University, Providence, RI

GPA: 3.5

Sc.M. Engineering (Signal Processing)

Graduated May 2020

 Relevant courses: Pattern Recognition/Machine Learning, Graph Theory, Digital Signal Processing, Audio and Speech Processing, Mathematical Statistics, Scientific Programming in C++

University of Connecticut, Storrs, CT

GPA: 3.4

B.S. Engineering Physics (Electrical and Computer Engineering Focus) Gra

Graduated May 2018

Relevant courses: Applied Linear Algebra, Multivariable Calculus, Differential Equations,
 Partial Differential Equations, Mechanics, Electricity and Magnetism, Statistical & Thermal Physics, Quantum Mechanics, Signals & Systems, Systems Analysis, Optical Engineering,
 Communication Systems, Semiconductor Devices & Nanostructures

Skills

Languages: Python, C++, Go, Bash, JavaScript, HTML/CSS

Databases: MongoDB, BigQuery, SQLite, ElasticSearch, Weaviate

Versioning/Deployment: Git, Github Actions, Docker, Kubernetes, Argo CD

Web: FastAPI (Python), Swagger/OpenAPI, WebSockets, WebAssembly

Metrics: Prometheus, Grafana, LogDNA

Clouds: AWS, GCP, Azure, Oracle, Digital Ocean

Work Experience

Zencastr

Machine Learning Engineer

Oct 2019 - Present

- Developed and deployed Zencastr's transcription pipeline, automatically transcribing podcast audio after recording completion
- Big data visualization of interconnected graphs using NetworkX and Cytoscape
- Responsible for uptime and accuracy of various internal business intelligence tools

Your Heaven Audio

Providence, RI

Product Engineering Intern

July 2018 - Oct 2019

- Conceived, prototyped, and implemented a feedback elimination algorithm for use in embedded systems
- Applied optimizations to legacy firmware C++ code for use in a PIC32 Microcontroller

Harman International Industries

Shelton, CT

Test Engineering Intern

Summer 2017 & 2018

- Developed scripted test procedures to detect faults in microprocessor-controlled amplifiers
- Worked with team to develop scripted and written procedures for factory-level testing
- Victor of Harman's intern competitions—worked with other interns to develop marketing/business strategies for various projects

UConn Quantitative Learning Center

Storrs, CT

Physics/Math/Statistics Tutor

April 2016 - May 2018

- Provide tutoring in calculus based physics/math/stats courses, tutoring up to 10 students at once
- Able to convey abstract concept to many different kinds of students

Activities

Progressive Coders Network

November 2021 - Present

Volunteer Developer

 Member of ProgCode, a non-profit organization building open-source tools to reduce the influence of money in politics

UConn Audio/Visual Club

April 2016 - May 2018

Founder and President

Founder and President of the UConn AV Club, a funded organization on campus, which
provides a dynamic environment for peers to collaborate on their audio and visual projects
together

Cloudwatch Records

June 2012 - Present

Sole Proprietor

- Manager: Album packaging, distribution, and light marketing for various acts

- Producer: Experience with high-fidelity audio recording and mixing via Pro Tools and Reaper

Interests

Academic: Speech Processing, Graph Understanding

Sports: Rowing, Rock Climbing

Arts: Music, Drawing

Membership: IEEE, ISCA