Daniel Schreck

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AI and neuroscience enthusiast with a focus on developing intelligent systems that reflect human emotions. Passionate about immersive VR applications and advancing deep learning techniques for brain-computer interface innovations. Building with kindness.

Education:

Stanford University
Stanford, CA | M.S. Computer Science | 2022 – current
- Specializations: Systems & A.I.
- GPA: 4.19/4.00

Brown University
Providence, RI | Sc.B. Neuroscience | 2014-2019
- Magna Cum Laude, Sigma Xi, Dept. Honors
- GPA: 3.96/4.00

Coursework:

- CS142 | Web Applications in React (A+, #1/95)
- CS110 | OS Principles (A+, #1/168)
- CS231 | Convolutional Neural Networks for Computer Vision (A+, top 10/300)
- CS161 | Design and Analysis of Algorithms
- CS109 | Probability for Computer Scientists
- CS193 | Swift and SwiftUI for iOS Development
- CS124 | Introduction to Natural Language Processing
- MATH104 | Applied Matrix Theory

Skills & interests:

- C, C++, Python, JS, HTML/CSS, SQL, Swift, Java, Rust, Pytorch, Tensorflow, React
- English, Spanish (professional proficiency)
- Long-distance hiking (50+ mile hikes in Colorado, Nepal, Utah, AT, PCT, Wyoming, New Zealand)
- Chess (+2000 ELO, working for professional title)

Research & Publications:

A. Mani, Y. Zang, T. Zhao, M. Leyrer, **D. Schreck**, D. Berson
A circuit suppressing retinal drive to the optokinetic system during fast image motion.
Nature Comm – *doi.org/10.1038/s41467-023-40527-z*

S. Sabbah, C. Papendorp, E. Koplas, M. Beltoja, C. Etebari, A. Gunesch, L. Carrete, **D. Schreck**, D. Berson (6 other)
Synaptic circuits for irradiance coding by intrinsically photosensitive retinal ganglion cells
bioRxiv - *doi.org/10.1101/442954*

Experience:

Silo Inc.
Founder | Stanford, CA | 2023 – Current
- Built iOS/Android/web-based suite of tools to leverage modern neuroscience research to combat screen time addiction

CS107 @ Stanford (Computer Systems)
Teaching Assistant | Stanford, CA | 2023 –2024
- Led office hours and weekly sections of 20 students teaching memory organization and management, assembly, C, processor architecture, compilation, and more.

CS193p @ Stanford (iOS Development with SwiftUI)
Course Assistant | Stanford, CA | 2023 –2024
- Automated lecture subtitle generation using Whisper (OpenAI open-source automatic speech recognition model) and managed CS193p YouTube account ahead of global course release.

YourDB Inc.
CEO | Stanford, CA | 2023 – Current
- Founded front-end cloud-based DBMS company with applications in law, venture capital, art, and humanitarian relief
- Built entire platform source code from scratch (using only Flask/PostgreSQL for backend)

Berson Lab, Carney Institute for Brain Science
Research Assistant | Providence, RI | 2016 – 2019
- Led laboratory-wide connectomic neuroscience project mapping retinal circuits in the inner plexiform layer with convolutional neural networks
- Research culminated in peer-reviewed publication in Nature Communications on the VGluT3 amacrine cell in the mammalian retina

Self-Development:

From 2020-2022 (during COVID), self-organized and completed equivalent requirements for an undergraduate B.S. degree in C.S. using only open-source materials (M.I.T. OpenCourseWare + Stanford Engineering Everywhere).