Daniel M. Azran

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EDUCATION

University of Central Florida **Orlando, Florida**

B.S. in Computer Science - 3.5 GPA

- **Related Coursework:** Data Structures & Algorithms, Computer Organization & Programming, Machine Learning, Artificial Intelligence, Robot Vision, Object-Oriented Programming, Statistics & Applications

EXPERIENCE

Extropian **Orlando, Florida**

Backend Software Developer *September 2024 - May 2025*

- Developed a cross-platform Flutter app to analyze golf swing metrics in real time, delivering instant performance feedback from wearable sensor data using Dart and Firebase.
- Led design and implementation of the Bluetooth data streaming layer and swing metric calculations, cutting packet loss from tens to single digits per session and enabling accurate, low-latency feedback using a custom dataframe
- Collaborated with a 6-member Agile team, using Git for version control and Jira to manage sprints

Systems Assembler & IT Technician **Multiple Locations**

Freelance *Sep 2018 – Present*

- Designed and assembled custom desktop systems for clients, tailoring hardware configurations for workloads such as gaming, video editing, and server hosting
- Set up a small business network including multiple workstations and virtual machines, improving operational efficiency and resource management
- Diagnosed and resolved hardware and software issues, communicating with each client in order to ensure stable, optimized systems for each unique use case

Sonic Locksmith **Hollywood, Florida**

Lockout Technician *Aug 2022 – Dec 2023*

- Programmed and cut keys for a wide range of vehicles, including push-to-start and traditional ignition models
- Diagnosed and resolved lockout issues on-site, applying technical troubleshooting to quickly restore customer access
- Maintained clear, professional communication with diverse clientele in high-pressure, time-sensitive situations

PROJECTS

Real-Time Optical Flow Tracker **Hollywood, FL**

Python, OpenCV 4.x *Aug 2025*

- Built a 30+ FPS real-time Lucas–Kanade tracker with Shi–Tomasi corner detection, improving stability via automatic feature re-detection
- Added forward–backward error checks, reducing false matches and increasing track reliability
- Implemented dense optical flow (Farneback) to visualize per-pixel motion from any video source

Real Estate Price Predictor **Orlando, FL**

Jupyter Notebook, R *June 2025 - July 2025*

- Built and benchmarked price models on shuffled train/test splits, starting from a linear-regression baseline and expanding to K-Nearest Neighbors, Random Forest, and AdaBoost
- Tuned hyperparameters via grid search and selected the lowest-RMSE configuration for reporting
- Extended analysis in R with log-price regression and diagnostics, reducing RMSE by 7% and improving residual spread

Handwritten Digit Classification using Neural Networks **Orlando, FL**

Jupyter Notebook *April 2024*

- Developed a Convolutional Neural Network (CNN) using TensorFlow and Keras to classify handwritten digits from the MNIST dataset with 98% accuracy.
- Preprocessed image data by normalizing and one-hot encoding labels to enhance model performance
- Implemented a feed-forward neural network with multiple layers (Flatten, Dense, Softmax) for image classification tasks

SKILLS

Programming: Java, Dart, Python, Rust, JavaScript, HTML/CSS, Node.js, React.js, R, C++, C

Tools: Google Colab, IntelliJ, Eclipse, AWS, Jupyter Notebook, Git, Agile, Flutter, Firebase, VSCode, VirtualBox, MongoDB

Additional Skills: Video Editing , Hebrew Speaker, Problem Solving, Familiar with small business workflows & client operations