

Nathan Rhys

Machine Learning Engineer

918 346-8217 Tulsa, OK nathan.rhys@atlasschool.com
[linkedin.com/in/nathan-rhys](https://www.linkedin.com/in/nathan-rhys) github.com/3lackrukh 3lackrukh.github.io

Machine Learning Engineer and Software Developer with non-profit leadership experience emphasizing public speaking community engagement, grass-roots fundraising and adult mentorship combined with technical specialization in Machine Learning and systems programming

Education

Diploma in Computer Science and Machine Learning

Expected August 2025

Atlas School | Tulsa, OK

GPA 3.4

A peer and project-based 20-month software engineering school in Tulsa, Oklahoma. The curriculum began with the fundamentals of software engineering in C, progressing through Full Stack Web Development covering Front-End and Back-End engineering, culminating in a 12 month focus on Machine Learning engineering and professional development

Bachelor of Biblical Studies

Graduated December 2014

Sunset International Bible Institute | Lubbock, TX

GPA 4.0

A 128-credit hour biblical studies program developing project management experience through multi-phase theological research projects, systems thinking in comprehensive textual analysis, cross-functional leadership via community outreach, and strategic communication with diverse and cross-cultural audiences—all while cultivating agile adaptation and deadline-driven execution in high-pressure environments with competing priorities

Projects

Computer-Vision Transfer Learning | Solo Engineer

December 2024

github.com/3lackrukh/atlas-machine_learning/supervised_learning/transfer_learning

- * Achieved 94.5% accuracy on CIFAR-10 image classification task building on the EfficientNetV2 model
- * Devised memory-efficient training pipeline with progressive learning rate decay and batch augmentation balancing computational efficiency with strong model performance on modest hardware
- * Developed experimental spatial attention adaptive dropout, delivering 96% F1-score for most classes

Backend Database Migration | Lead Developer

June 2024

github.com/3lackrukh/atlas-AirBnB_clone_v2

- * Integrated file storage and MySQL backends for data persistence and cross-migration with SQLAlchemy
- * Implemented RESTful command-line interface with multi-parameter handling for object creation, retrieval, update and deletion with comprehensive unit testing
- * Designed relational database schema with foreign key constraints and cascade deletion rules maintaining data integrity across storage engines

Custom Unix Shell | Lead Developer

April 2024

github.com/3lackrukh/atlas-simple_shell

- * Led end-to-end development of POSIX-compliant shell implementation in C
- * Designed input processing pipeline delivering seamless path resolution for built-in shell operations
- * Engineered parent-child process architecture with executable validation, ensuring proper status code propagation
- * Integrated resource tracking and cleanup system ensuring zero-leak memory safety in all termination scenarios

Experience

Atlas School | Tulsa, OK

April 2024 - Present

Student Tutor

Guelph Church of Christ | Ontario, Canada

January 2015 - March 2019

Minister & Non-Profit Leader

Skills

Languages : Python, Javascript, Typescript, C#, C, HTML, CSS, Shell Scripting

Development : REST APIs, Unit Testing, Git Version Control, Docker Deployment

Tools: Flask, CORS, JSON, SQL, Jupyter, NumPy, SciPy, Matplotlib, TensorFlow, Keras, PyTorch, OpenCV