Alexander Hagopian
Fremont, NH 03044

603-421-7037 | hagopianalexander@gmail.com | https://github.com/AH0502 | http://www.linkedin.com/in/alexander-hagopian-650a56255

EDUCATION

Rivier University, Nashua, NH   September *2022—December 2025*
Bachelor of Arts in Mathematics
Minor in Computer Science
GPA: 3.93
Honors & Awards
Dean's List (All Semesters), *Merit Scholarship*
Relevant Courses*:* Computer Science Fundamentals, Computer Architecture, Database Management Systems, Computer Networking, Computer Security, Technology & Entrepreneurship, Discrete Mathematics

WORK EXPERIENCE

Research Assistant
Rivier University, Nashua, NH   May 2025—Present
- Assist in the creation of an open-source college-level geometry textbook using PreTeXt, focusing on interactive, web-friendly formatting and accessible design.
- Develop interactive mathematical exercises to improve student engagement and comprehension.
- Use Git and GitHub for version control and collaboration with faculty and contributors.

Mathematics Tutor   September 2024—Present
Rivier University, Nashua, NH
- Provide one-on-one tutoring for courses in Functions, Calculus, Linear Algebra, and Mathematical Statistics.
- Assist students in problem-solving, understanding complex concepts, and exam preparation.
- Tailor explanations to different learning styles to improve student comprehension and performance.

Software Engineering Intern
Concord Group Insurance – Bedford, NH   June 2025—August 2025
- Designed and implemented full-stack internal tools using React (TypeScript) and C#/.NET, improving workflow efficiency for Business Analysts.
- Collaborated with project managers, business analysts, and engineers to design system architecture and deliver secure APIs and front-end components that passed user acceptance testing.
- Utilized Azure DevOps Server for version control, task management, and deployment pipelines.
- Participated in Agile ceremonies, code reviews, and sprint planning to deliver production-ready features on schedule.

Machine Learning Engineer Intern   September 2024—December.2024
DB Attic Studios, Hybrid *,* Nashua*,* NH
- Preprocessing and cleaning large datasets for machine learning models.
- Perform feature extraction using Python, NumPy, and SciPy of an EEG signal dataset to extract over 22 features for modeling.
- Perform academic research to assist in the development of an emotional recognition framework.

TECHNICAL SKILLS

- **Programming Languages**: Python, JS/TS, C#, Java, SQL, HTML/CSS
- **Libraries/Frameworks**: React, .NET, Pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn, TensorFlow, Keras
- **Tools**: Microsoft Excel, Azure DevOps Server, Visual Studio, Git

CERTIFICATIONS

The Data Science Course: Complete Data Science Bootcamp 2024 *Udemy*   July 2024
Neural Networks and Deep Learning *Deep Learning.AI*   August 2024
Improving Deep Neural Networks:
    Hyperparameter Tuning, Regularization and Optimization *Deep Learning.AI*   *September 2024*

PROJECT EXPERIENCE

Breast Cancer Logistic Regression
- Used Python libraries Pandas and Scikit-Learn to perform preprocessing tasks such as removing redundant features and normalizing the data.
- Fit training data to a logistic regression model; predicted whether patients had malignant or benign cancer on test data with an accuracy of 97%.

Deep Learning MNIST Classification
- Preprocessed MNIST dataset by scaling images, creating validation and test sets, shuffling data, and batching inputs for efficient training using TensorFlow.
- Built and trained a TensorFlow deep neural network with two hidden layers, achieving an accuracy of 98% on the development set using the Adam optimizer and sparse categorical cross-entropy loss.

VOLUNTEER EXPERIENCE & EXTRACURRICULAR ACTIVITIES

Holiday Cards For Our Military Challenge, Hollis, NH
Proofreader
- Volunteered 20 hours proofreading and building cards to be sent to US service members across the globe.
- Ensured the accuracy and quality of written messages on holiday cards.
- Contributed to boosting morale and showing appreciation for the sacrifices of military personnel.

OCB (Organization of Competitive Bodybuilders)
Competitive Bodybuilder
- First Place, Debut, Shamrock Cup Classic, Durham, NH (2024)
- Fourth Place, Open, Shamrock Cup Classic, Durham, NH (2024)