

# Armin Rahbar

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[github.com/arminrahbar](https://github.com/arminrahbar)

1008 Pembroke St, Herndon, VA 20170

## SKILLS

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**Proficient:** Java, Python, JavaScript, HTML, CSS, React, Git, Docker, Jenkins

**Working Experience:** Angular, Spring Boot, SQL, AWS (EC2, S3, Elastic Beanstalk, RDS, Route 53, IAM), JUnit, PowerShell, Bash, NumPy, Pandas, Matplotlib

**Familiar:** scikit-learn, PyTorch, TensorFlow, spaCy, Machine Learning (Supervised & Unsupervised), Deep Learning, Model Training, Model Evaluation, Hyperparameter Tuning, Feature Engineering, Data Preprocessing, Model Selection, Model Optimization

## STRENGTHS

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Strong Oral Communication and Written Communication, Teamwork, Problem Solving

## RELEVANT COURSES COMPLETED

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Machine Learning, Natural Language Processing, Artificial Intelligence, Big Data Analytics, Analysis of Algorithms, Program Design and Data Structures, Object-Oriented Software Specification and Construction, Software Design and Architecture, Software Engineering for the World Wide Web, Component-Based Software Development, Database Systems, Software Testing

## PROJECTS

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- Developed a survey management website using Java and Spring Boot. Handled controllers, services, and repositories. Built the frontend with Angular and applied CSS. Integrated Amazon RDS to handle survey submissions, modifications, and deletions.
- Developed a personal portfolio website with JavaScript, HTML, and CSS. Applied advanced deployment techniques, implemented Docker containerization with Nginx as the web server, deployed the application on Amazon EC2, and utilized Kubernetes for scaling. Set up a CI/CD pipeline using Jenkins and Bitbucket.
- Built a chat box using React for the frontend and Express for the backend, integrated with the ChatGPT API. Deployed the frontend on GitHub Pages and backend on AWS Elastic Beanstalk. Configured a custom domain and SSL via Route 53 for secure HTTPS communication. Managed backend access with IAM for permissions and set a budget limit with OpenAI to monitor API usage costs.
- Developing a price tracking web application to help users monitor product prices across various retailers. Currently designing a user-friendly UI using React for the frontend. Future work will include backend development with Express hosted on AWS Elastic Beanstalk, database integration using Amazon RDS, and deployment of the frontend on Amazon S3 with a custom domain through Amazon CloudFront.
- Used Car Price Prediction: trained and tuned Linear Regression, Ridge, Lasso, ElasticNet, Decision Tree, Random Forest, AdaBoost, XGBoost, CatBoost, LightGBM, Neural Network, and Ensemble models (stacked and weighted). Performed preprocessing, feature engineering, and hyperparameter tuning using GridSearchCV and RandomizedSearchCV. Evaluated models using  $R^2$  score for regression performance.

## EDUCATION

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**New Jersey Institute of Technology** - Master of Science in Artificial Intelligence

Jan 2025 - Dec 2026

**George Mason University** - Master of Science in Software Engineering

Jan 2022 - Dec 2024

## PROFESSIONAL EXPERIENCE

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**Computer Science, Java and Python Tutor**

Dec 2023 - Present

- Provide one-on-one tutoring in core computer science concepts including algorithms, data structures, and object-oriented programming.
- Teach Java and Python programming to students ranging from beginners to intermediate level.
- Assist students with debugging, code reviews, and exam preparation to help improve academic performance.