

Ramtin Seyedmatin

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EDUCATION

University of Kentucky

B.S. in Computer Science

Lexington, Kentucky

Expected Graduation, Dec 2026

- **Related Coursework:** Intro to Program Design, Design of Logic Circuits, Intro to Software Engineering Techniques, Web Programming, Discrete Mathematics, Data Structures and Algorithms, Systems Programming

EXPERIENCE

University of Kentucky

Summer Research Intern

Lexington, Kentucky

May 2024 – August 2024

- Analyzed ride-hailing data for over **80** census tracts using Alex Mucci's TNC Demand Model under Dr. Gregory Erhardt's guidance
- Optimized large datasets, processing **6,000+** records using **Python Pandas** for sourcing, cleaning, and validation to ensure model accuracy.
- Collaborated on data analysis and visualization for ride-hailing demand modeling, generating insights for internal research use.

University of Kentucky

Research Lab Intern

Lexington, Kentucky

March 2022 – May 2022

- Learned Python fundamentals, including data manipulation,, while observing applications of machine learning in research.

NON-TECHNICAL EXPERIENCE

Home Depot

Appliances Sales Associate/Cashier

Lexington, Kentucky

March 2023 – Present

PROJECTS

Habit Tracker | Python, FastAPI, PostgreSQL, React.js, Git, HTML, CSS

January 2025 – Present

- Developing a full-stack web application with a responsive user interface using **React.js** and a **RESTful API** built with **FastAPI** to allow users to track and manage up to **20+** habits
- Designing a scalable database schema using **PostgreSQL** to store and organize user data, enabling efficient management of user habits and clustering data.
- Leveraging **Git** for efficient version control, ensuring accurate tracking of code changes

TNC Demand Model Southeast | Python, Pandas, QGIS

May 2024 - August 2024

- Engineered and optimized **Python** scripts to clean, process, and validate **6,000+** records for ride-hailing demand modeling.
- Utilized **QGIS** to create detailed geospatial visualizations highlighting demand patterns.

VALT (Vision Assisted Launcher Toy) | Matlab, Arduino

Feb 2023 – May 2023

- Led the design and implementation of an **Arduino**-based scoring system and Integrated **MATLAB** code with **Arduino** for system functionality.
- Collaborated with a team of **3 members** to ensure the scoring system aligned with project objectives, delivering results within **3 months** and meeting project milestones.

SKILLS

Languages: C/C++, Python, SQL, JavaScript, HTML, CSS, MATLAB

Frameworks & Libraries: FastAPI, Pandas, React.js

Tools: Git, PostgreSQL, Linux, Jupyter Notebook, Node.js, Visual Studio Code, Arduino