Ramtin Seyedmatin

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EDUCATION

University of Kentucky   **Lexington, Kentucky**
B.S. in Computer Science   *Expected Graduation, Dec 2026*
- o   **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   **Lexington, Kentucky**
Summer Research Intern   *May 2024 – August 2024*
- Applied Alex Mucci's TNC Demand Model to Fayette County, Kentucky, analyzing ride-hailing data for over **80** census tracts, 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.
- Executed **Python** scripts and utilized QGIS to create **10+** visualizations showcasing results and insights at each project milestone.

University of Kentucky   **Lexington, Kentucky**
Research Lab Intern   *March 2022 – May 2022*
- Explored Machine Learning, learning Python basics and observing practical applications of Machine Learning techniques.

NON-TECHNICAL EXPERIENCE

Home Depot   **Lexington, Kentucky**
Appliances Sales Associate/Cashier   *March 2023 – Present*

PROJECTS

Habit Tracker | *Python, FastAPI, PostgreSQL, React.js, Git, HTML, CSS*   *January 2025 – In Progress*
- Developing a full-stack web application with **FastAPI** serving a **RESTf**ul **API** and **React.js** as the frontend.
- Designing database schema using **PostgreSQL** to store and manage user habits and clustering data.
- Utilizing **Git** for version control to track changes effectively.

TNC Demand Model Southeast | *Python, Pandas, QGIS*   *May 2024 - August 2024*
- Applied Alex Mucci's TNC Demand Model to **80+** Fayette County census tracts, calculating ride-hailing demand data using **Python Pandas**.
- Processed and cleaned **6,000+** data points using **Python Pandas**, and **Jupyter Notebook**, ensuring model readiness and accuracy.

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 (Postgres), JavaScript, HTML, CSS, MATLAB
Frameworks & Libraries: FastAPI, Pandas, React.js
Tools: Jupyter Notebook, Node.js, Git/GitHub, Linux, Visual Studio Code, Arduino