



# BRAD RAMNARINESINGH

Ontario, Canada

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Bradramnarinesingh (Brad Ramnarinesingh)

## Summary

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Aspiring computer science student with strong problem-solving and technical skills. Experienced in software development, web design, and creating impactful solutions. Passionate about coding and teamwork, seeking opportunities to contribute to innovative projects.

## Education

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### University of Toronto

*Honors Bachelor of Science in Computer Science, Mathematics, and Statistics*

**2021 - TBD**

*Toronto, Ontario*

## Projects

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### Travel AI App Development | *Gemini LLM, Next.js, Neon PostgreSQL, APIs*

- **Interface:** Developed an interactive, mobile-friendly web interface with Next.js for seamless user experience across devices.
- **AI:** Built a travel assistant app using Gemini LLM to generate personalized travel plans based on user preferences and budgets.
- **Backend:** Integrated Neon PostgreSQL for efficient data management and a robust backend to handle real-time queries and user inputs.
- **Features:** Incorporated APIs for location-based services and traffic updates to enhance trip planning accuracy and convenience.

### ML House Price Prediction | *Python, Scikit-Learn, Gradient Boosting, Pandas, Matplotlib*

- **Model:** Built a predictive model using Python and Scikit-Learn Gradient Boosting Regressor, achieving a Mean Absolute Error of \$33,429.72 for house price forecasting.
- **Processing:** Employed Pandas for data cleaning and feature engineering, including price change calculations and normalization with StandardScaler, enhancing model performance by capturing market trends.
- **Algorithm:** Developed a conservative growth algorithm incorporating dynamic decay factors and sanity checks to ensure reliable and realistic long-term price predictions.
- **Visualization:** Utilized Matplotlib to create comprehensive graphs showcasing historical data and future price projections, facilitating better interpretation and presentation of results.

### Portfolio Website | *HTML/CSS, JavaScript*

- **Frontend Development:** Designed and built a personal portfolio website using HTML, CSS, and JavaScript to effectively showcase projects and skills.
- **Responsive Design:** Implemented responsive web design principles to ensure consistent performance and appearance across various devices and browsers.
- **Interactive Features:** Added interactive elements such as animations and hover effects to enhance user engagement and website appeal.

## Technical Skills

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**Languages:** Python, Java, JavaScript, HTML/CSS

**Developer Tools:** VS Code, PyCharm, Vercel

**Technologies/Frameworks:** Scikit-Learn, Pandas, Matplotlib, React.js, Next.js, WordPress

**Databases:** Neon PostgreSQL

## Experience

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### Peel Hardware and Supply

**May 2023 – Present**

*Sales Associate*

*Caledon, Ontario*

- Streamlined inventory organization processes, improving efficiency in stock management.
- Delivered exceptional customer service by resolving queries and offering tailored product advice.
- Collaborated with team members to ensure a well-maintained and visually appealing sales floor.