

# Nikhil Hooda

nikhilhooda06@gmail.com · 647-877-8726 · linkedin.com/in/hooda-nikhil/ · github.com/NikhilHooda

**Skills** Python, Java, Javascript, Racket, Node.js, React.js, Express.js, MySQL, Pandas, HTML, CSS

## Experience

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**Prest** · Software Engineer Intern – Toronto, ON Jul 2023 – Aug 2023

- Designed and Developed REST API endpoint for Flask web server in Python to store customer Q&As in MySQL database, enabled the company to analyze customer usage metrics and calculate cost-per-customer insights
- Designed SQL data model to effectively persist and organize questions and answers for streamlined retrieval
- Wrote **20+** unit tests, achieving **100%** code coverage in new feature

**City of Brampton** · STEM Camp Leader – Brampton, ON Sept 2023 – Sept 2024

- Educated over **100** youth through various hands-on STEM programs using SPIKE Essentials & Prime, VEX, and Python
- Led two-month program for **15+** students, facilitated the creation of **3** new projects weekly using Lego SPIKE Essentials

**Code Ninjas** · Coding Instructor – Brampton, ON Apr 2022 – Sept 2022

- Taught coding fundamentals to **80+** students through interactive game creation using Scratch, Roblox Studio, and Unity
- Led web development camp for **~20** students, taught how to build functional websites using HTML, CSS, & Javascript
- Conducted specialized camps for Roblox development, educated participants about coding principles with Lua

## Projects

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**RetireSafe** · <https://prestcloud.com> 2024

- Developed full-stack retirement planning application leveraging React.js, Node.js, and MySQL to estimate and display user's financial projections during retirement
- Implemented secure user authentication with login system, utilized sessions and cookies to maintain user state, and integrated MySQL Database to store user personal information
- creating success rate projections by analyzing inflation trends and historical market data
- Implemented dynamic data visualizations for user's finances using HighCharts library
- Architected and maintained a state management system with Redux to ensure seamless data handling across forms and components for accurate real-time updates

**EPL Match Predictor** · [https://github.com/NikhilHooda/EPL\\_Web\\_Scrapper](https://github.com/NikhilHooda/EPL_Web_Scrapper) 2024

- Developed robust web scapper using Python and BeautifulSoup to collect historical match data and detailed player statistics from **1400** premier league matches
- Cleaned and merged large datasets in pandas, combining match statistics, shooting data, and seasonal performance metrics into unified CSV format for predictive analysis
- Built and trained Random Forest ML model using scikit-learn to predict outcomes based on various match features with **~70%** accuracy

**Reddit Bot** · <https://github.com/NikhilHooda/reddit-ig-meme-bot> 2024

- Wrote Python script to automatically post Reddit memes to an Instagram page, growing 2 accounts to **3k+** followers
- Integrated Reddit API to download top posts and used Selenium to control browser for posting on Instagram

## Education

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University of Waterloo · Bachelor of Computer Science 2024 – Present