Neysa Patel

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Education

University of Waterloo Sep 2020 – Apr 2025

Bachelor of Computer Science, Artificial Intelligence Specialization

- GPA: 94.3%
- **Relevant Coursework:** Object Oriented Software Development, Elementary Algorithm Design & Data Abstraction, Functional Programming, Linear Algebra, Probability

Skills

Languages: Java, Python, C/C++/C#, JavaScript, Go, TypeScript, HTML/CSS, SQL, R, Bash, Scheme
Frameworks: React, Node.js, Express.js, Flask
Tools: MySQL, MongoDB, Linux, Git

Experience

1Password Sep 2021 - Dec 2021

Jr. Security Specialist (Co-op)

JP Morgan Chase & Co. May 2021

Software Engineering Virtual Experience Program (Certification)

- Developed an interface with live updates to stock price data using Perspective with python scripts
- Displayed the stock price data using a live line graph to allow investors to easily identify stock trends

University of Waterloo Data Science Club Jan 2021 - May 2021

Vice President of Social Media

- Led all aspects of the club's social media strategy, increasing Twitter following by 120%, Instagram following by 85%, and Facebook following by 60%

Projects

2048 (Personal Re-implementation) | *Java - OOP (Object Oriented Programming)*

- Applied OOP principles (encapsulation, inheritance, abstraction, polymorphism) to develop the game
- Deployed Selenium testing to resolve bugs that could potentially cause crashes

Crochetella | *MERN (MongoDB, Express, React, Node) Stack*

- Designed and developed a fully functional e-commerce web application using PayPal for order placement
- Increased efficiency by ∼35% by storing user login, order, and delivery status data using MongoDB
- Decreased server data fetch time by ∼20% by using React Hooks and managing state with Redux

Sentify | *Python - NLP (Natural Language Processing), Twitter API*

- Analyzes the sentiment of posts (such as Amazon or IMDb reviews, Tweets, Instagram comments)
- Retrieved a dataset of ∼10,000 tweets using Twitter's API, which were then tokenized and normalized
- Applied Naive Bayes classifier to convert tokens into a dictionary with over 50,000 key-value pairs

tl;dr Article Summarizer | *Python - NLP (Natural Language Processing)*

- Performs Extractive Summarization using unsupervised learning to summarize articles
- Reduced runtime by ∼15% representing sentences as vectors and evaluating their Cosine Similarities