VAMSI GAJJELA

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VamsiGajjela

EDUCATION

University of Toronto Sept. 2019 - Current
Honours Bachelor of Science (Computer Science)
Relevant Courses: Software Tools and Systems Programming, Data Structures and Analysis, Algorithm Design and Analysis, Operating Systems, Introduction to Databases, Computational Complexity and Computability, Principles of Computer Networks, Programming on the Web, Introduction to Machine Learning

SKILLS

LANGUAGES: Python, Ruby, Java, C, JavaScript, SQL, HTML, CSS
TECHNOLOGIES: Django, Ruby on Rails, React, Git

EMPLOYMENT

University of Toronto, *Teaching Assistant - Introduction to Computer Science (CSC148)* Jan. 2023 - Apr. 2023
- Conducted labs for more than 100 students to strengthen topics learnt in lecture
- Taught and clarified key software topics including memory models, OOP, data structures and algorithms to first year students

Shopify, *Software Developer Intern*, Toronto, ON (Remote) June 2022 - Aug. 2022
- Developed capabilities to better detect and deny suspected bot checkouts, protecting all flash sales (10% of Shopify Gross Merchandise Volume)
- Improved bot observability for engineers by creating a Datadog dashboard to better display scores from Captcha providers.
- Improved Slack integration UX and maintainability by refactoring the codebase and redesigning the interface to better track flash sales
- Utilized Splunk and Mode Analytics to debug, fix, and validate responses from flash sales

Shopify, *Software Developer Intern*, Toronto, ON (Remote) Jan. 2022 - Apr. 2022
- Assisted in the implementation of hCaptcha to enhance the Shopify bot protection experience
- Designed and implemented a new service to detect and flag auto-checkout bots during flash sales, blocking up to 65% of the fraudulent orders
- Tracked unique user interaction metrics for checkouts to investigate potential bottlenecks in performance

PROJECTS

URL Shortener
- Designed and created a URL shortener using Django, SQLite, HTML, and CSS
- Built a simple user interface and served users by deploying the application onto Heroku

File Compression/Decompression
- Utilized Huffman trees to perform lossless compression and decompression of files by mapping symbols to codes according to their frequencies
- Decompression is achieved by traversing the appropriate path on the tree
- Supports a variety of file types including .txt, .mp3, .wav, .jpg, and .bmp files