Yash Arora

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Skills

Languages: Python, C++, C, JavaScript/TypeScript, Ruby, Java, C#, Go, Groovy
Technologies: TensorFlow, Keras, PyTorch, Pandas, NumPy, Spark, Hadoop, Scikit-learn, OpenCV, Node.js
Tools: Git, SQL, MongoDB, Jenkins, AWS, GCP, Azure, Docker, Kubernetes

Education

University of Waterloo   2019 – Present
Bachelor of Software Engineering   4.00 GPA (93% Term Average), 3.92 CGPA

Experience

UW Aquadrone – Machine Learning Engineer, Computer Vision   Waterloo, ON. | Sept 2019 – Present
- Developed a variety of tools and CNNs that powered decision-making for an underwater autonomous drone.
- Created ML models using TensorFlow/Keras and YOLOv3 to classify objects in various underwater conditions.
- Programmed scripts with Python to automate the labelling process of datasets with over 43, 000 images.
- Wrote algorithms to perform data augmentation on smaller datasets, increasing the training set by ~24x.
- Leveraged OpenCV Canny edge detection algorithms to inform drone to pass through dedicated checkpoints.

Carbonite - Software Engineering Intern   Boston, MA. | Jan – Apr 2021
- Developed features for distributed systems using TypeScript (React, Node.js), .NET (C#), Python, and SQL.
- Created a REST API to automatically configure new computers for backups, reducing backup times by up to 23%.
- Led the development of a new feature in React and Node.js to monitor the statuses of over 300, 000 servers.
- Optimized Jenkins CI/CD Pipeline using parallelization with Groovy to reduce build execution time by 78%.

Localintel - Software Engineering Intern   Seattle, WA. | May – Aug 2020
- Built a data management portal with Node.js/Express and Angular to automatically perform client map updates.
- Developed a visualization/mapping tool with Angular and jQuery to display logistics and accessibility statistics.
- Automated the execution of Node.js and Python scripts with Airflow, saving ~12 customer success hours weekly.
- Created REST API endpoints to perform CRUD operations with geographical data on PostgreSQL databases.

Hatch - Software Developer Intern   Toronto, ON. | Jan – June 2019
- Prototyped a notification delivery service using Python (Django), increasing user retention and engagement.
- Created a feature using React and GraphQL to allow users to query a problem-set database by competencies.

Projects

Thinq - Internet-Free Virtual Personal Assistant | Node.js, Wolfram Alpha, Twilio   yasharora.com/thinq
- Received funding on behalf of Scotiabank, RBC, and Dragons' Den Investor Michael Wekerle.
- Demoed at International Career Development Conferences in Orlando, FL and Atlanta, GA to private investors.
- Leveraged natural language processing (NLP) to summarize queries and optimize response time.

Vysion - Computer Vision for the Visually Impaired (Try it!) | GCP, TensorFlow, React   vysion.live
- Detected the presence of objects using TensorFlowJS, reducing API calls and improving user experience.
- Performed image classification and OCR with Google Cloud Vision to inform users of their surroundings.
- Received WolframOne award by Wolfram Alpha at Trent University's Electric City Hacks.

Ohana - Free Online Code Collaborator (Try it!) | Node.js, React, Express, Socket.IO, Firebase   itsohana.com
- Led product management by defining core project scope, goals, and deliverables among 4 developers.
- Implemented REST API and Socket.IO with Node.js and Express to sync whiteboards for up to 15,000 users.