Reet Yogesh Kothari

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EDUCATION

B.S. in Computer Science, Minor in Business Administration **September '20 – December '23**
University of Washington – Seattle, WA
GPA: 3.63

Areas of Expertise: Data Structures, Algorithms, Database Management, Machine Learning, Artificial Intelligence, Computer Vision, Full-Stack Development, Embedded Software Development, Web Development, Data Analytics, Distributed Systems, Network Programming, Computer Theory, Linear Algebra, Calculus.

Technical Skills:
Languages: Java, Python, JavaScript, C, C++, R
Web Development: Node.js, React.js, Vue.js, REST, HTML, CSS, Bootstrap, jQuery
Database: MySQL, MongoDB, Azure SQL, DynamoDb, Spark
Miscellaneous: PyTorch, TensorFlow, Scikit-learn, Pandas, OpenCV, SciPy, NumPy, Git, Linux, AWS

EXPERIENCES AND PROJECTS

Embedded Software Design Intern **Okemos, MI**
Perasia Technologies LLC April '23– Present
- Training an ECG Arrythmia classifier that is fed ECG signal files from a cloud instance that receives the files through the MQTT protocol of embedded systems.
- Worked in the development of software around Autonomous, Advanced Driver Assistance Systems (ADAS) and Human to Machine Interface (HMI) in the automotive engineering industry using Embedded C and C++.

Cybersecurity Research Intern **Bengaluru, India**
Siemens Technology and Services Pvt. Ltd. July '22 – September '22
- Used the Siemens Intranet and research papers to answer security questions related to Operational Technology and create a report which was used to improve security features on the SIMATIC controllers. Also worked with understanding and finding vulnerabilities through the WinCC software.

Best Use of Data Award **Seattle, WA**
NASA Space Apps Hackathon Challenge | Pandas, TensorFlow October '22
- Curated past data relevant to solar winds and used relevant features to detect spikes and give an early indicator for potential geomagnetic storms. Our work laid the groundwork for a future ML model to make predictions.

Garbage Classifier **Seattle, WA**
PyTorch | Link May '23 – June '23
- Used a Kaggle dataset with 12 classes to train a deep convoluted neural network to classify garbage for waste management. The neural network uses ResNeXt blocks to train for multiple epochs without the disappearing gradient issue. The model scored a test accuracy of 88.7206% and works on custom user input images as well.

Flight Reservation Application **Seattle, WA**
Azure SQL, Java February '23
- Used Azure Database on the backend and Java frontend to simulate a flight reservation application that would create and login users (passwords are hashed and salted), search flight itineraries, reserve flights, and book them based on reservation numbers. The database also keeps track of a user's balance after itinerary purchases.

Racial Justice **Seattle, WA**
dplyr, plotly, ggplot, shiny.R | Link December '20
- Surveyed data related to police shootings in the United States and the victim's age, race, and condition (fatal, harmed, undetermined) were used to compare COMPAS score to determine which minority was the most affected.