

Reet Yogesh Kothari

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EDUCATION

B.S. in Computer Science, Minor in Business Administration

University of Washington – Seattle, WA

September 2020 – December 2023

GPA: 3.63

Areas of Expertise: Full-Stack Development, Data Science, Database Management, Data, Analytics, Distributed Systems, Embedded Software Development, Network Programming, Computer Theory, Linear Algebra.

Technical Skills:

Languages: Java, Python, JavaScript, C++, C, R

Web Development: Node.js, React.js, Vue.js, REST, GraphQL, Express, Bootstrap, jQuery

Database: MySQL, MongoDB, Azure SQL, DynamoDb, Spark

Miscellaneous: PyTorch, TensorFlow, AWS, Pandas, Scikit-learn, Docker, OpenCV, SciPy

EXPERIENCES

Embedded Software Design Intern

Perasia Technologies LLC

Okemos, MI

April 2023– Present

- Improved the ECG R-peak detection by 10% through signal filters and performed heart rate variability analysis.
- Trained an ECG beat classifier for Arrhythmia detection with 98% accuracy. Also helped create the cloud instance throughout the entire Software Development Life Cycle.
- Worked on 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

Siemens Technology and Services Pvt. Ltd.

Bengaluru, India

July 2022 – September 2022

- Utilized the Siemens Intranet and research papers to explore security exploits through firmware updates in Operational Technology Systems and created a report which was used to improve security features on the SIMATIC controllers.

PROJECTS AND AWARDS

Garbage Classifier

PyTorch | [Link](#)

Seattle, WA

May 2023 – June 2023

- Trained a deep convoluted neural network using a Kaggle dataset to classify garbage for waste management. The network's ResNeXt blocks allows it 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.

Sharded Linearizable KV-Store (CSE 452)

Java | [Link to spec](#)

Seattle, WA

April 2023 – June 2023

- Developed a linearizable key-value store that utilizes Paxos servers to create a load-balancing, highly fault-tolerant distributed system that uses a two-phase commit protocol to support multi-key client transactions.

Flight Reservation Application (CSE 344)

Azure SQL, Java | [Link to spec](#)

Seattle, WA

February 2023 – March 2023

- Created a full-stack flight reservation application that would handle user login, conduct flight searches, make itineraries, manage reservations, and handle user balance to book the reservations.

Best Use of Data Award

NASA Space Apps Hackathon Challenge | Pandas, TensorFlow

Seattle, WA

October 2022

- Analyzed DSCOVR's magnetic flux data from solar winds to monitor for spikes and give an early indication for potential geomagnetic storms with about 90% accuracy.

Racial Justice

dplyr, plotly, ggplot, shiny.R | [Link](#)

Seattle, WA

October 2020 - December 2020

- Surveyed data related to COMPAS scores, racial risk sensitivity, fatal shooting encounters, and juvenile arrests to recognize a pattern of injustice and determine which minorities were the most affected.

Non-Technical Roles: FIG Leader Autumn 2022 (Taught a seminar of 24 freshmen students, collaborated with other leaders to develop modules), Classroom Technician Winter 2023 (Worked in fast paced environment, provided customer service).