

# 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:** Data Structures, Algorithms, Database Management, Data Science, Full-Stack Development, Embedded Software Development, Web Development, Data Analytics, Distributed Systems, Network Programming, Computer Theory, Linear Algebra.

### 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

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## EXPERIENCES AND PROJECTS

### 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 Arrhythmia classifier that makes predictions on ECG signal files. 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.

### Best Use of Data Award

NASA Space Apps Hackathon Challenge | Pandas, TensorFlow

**Seattle, WA**

October 2022

- Curated and analyzed DSCOVR's magnetic flux data from solar winds to monitor for spikes and give an early indication for potential geomagnetic storms.

### Garbage Classifier

PyTorch | [Link](#)

**Seattle, WA**

May 2023 – June 2023

- Used a Kaggle dataset with 12 classes to train a deep convoluted neural network to classify garbage for waste management. The network's ResNeXt blocks allows for multiple epoch training 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, fault-tolerant distributed system that supports multi-key client updates.

### 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.

### Racial Justice

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

**Seattle, WA**

October 2020 - December 2020

- Surveyed data related to police shooting victims in the United States to compare COMPAS scores, risk sensitivity, fatal shooting encounters, and determine which minorities were the most affected.

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