Susan Zhang

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Education

Boston University, Boston, MA *Expected May 2024*

Bachelor of Science

Major in Electrical Engineering; Minor in Systems Engineering; Concentration in Machine Learning

Honors Society: IEEE-Eta Kappa Nu

Work Experience

Verizon

IT Portfolio Management Intern *Jun 2023 – Aug 2023*

- Designed comprehensive microsite/hub for CSG Demand, Portfolio, and PMO, enhancing transparency into budget allocation, funding, and organizational processes while fostering sense of team culture and connectedness.
- Led critical high-visibility project, mapping product-app-people relationships to identify app-product dependencies and associated POCs — unlocking potential opportunities to optimize operational costs for upcoming year.

Data Analytics / Machine Learning Intern *Jun 2023 – Aug 2023*

- Gathered valuable data insights into Verizon's 5G fixed wireless access (FWA) service disconnects through creation of informative dashboards and real-time anomaly detection to flag irregularities in data using **Kibana**.
- Collaborated closely with cross-functional team to analyze trends and patterns, providing crucial inputs for process optimization and service enhancement.

Software Development Intern *Jun 2022 – Aug 2022*

- Implemented mechanism towards optimizing operational efficiency across Verizon's reverse supply chain network.
- Developed API interfaces to integrate client/app with backend 1ERP system using **APIGEE** as middleware.
- Created dashboards on **Splunk** to hold analytics details for API monitoring.
- Engaged in strategic discussions on emerging technologies at the Corporate Systems Group (CSG) Leadership Offsite Session with the SVP & CIO of Verizon and leadership team to explore innovative solutions for organizational growth.

Electromagnetic Technologies Industries Inc. *May 2021 – Aug 2021*

Engineering Intern

- Computed estimate of cost and expected material distribution to install devices for telecommunication purposes within 3 underdeveloped cities.
- Graphed radiation patterns of potential antenna arrays according to specified number of elements and tapers in **MATLAB**.
- Assembled and utilized **vector network analyzers** (VNA) to test directional couplers and power dividers based on customer specifications.
- Performed calculations for potential patent by leveraging Euler's formula(s) and antenna theory.

Projects

Laser Cavity Simulation *Jan 2022 – Present*

- Executed particle swarm optimization technique to obtain specific target cavity spectrum(s) in **MATLAB** under guidance of research professor and PhD student.

Pet Classification Challenge *Sep 2022 – Dec 2022*

- Built image classifier to distinguish between cats and dogs through machine learning algorithm in **MATLAB**. By partitioning dataset into training and test sets in folds, error rates of less than 15% were achieved.

Leadership Experience

Laboratory Teaching Assistant, Power Electronics *Jan 2024 – Present*

Teaching Assistant, Deep Learning *Jan 2024 – Present*

Secretary, BU China Care Fund *May 2022 – Present*

Laboratory Teaching Assistant, Introduction to Electronics *Sep 2023 – Dec 2023*

Skills

Languages: English, Mandarin, Spanish

Technical: Adobe Photoshop, Google Applications, MATLAB, Microsoft Office Products, Python, SolidWorks, Verilog