YINGYING XU

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Education

University of Texas at Austin – Austin, TX   Expected May 2024
Bachelor's of Science in Computer Science, Minor in Business   GPA: 3.81/4.0

Skills

Languages: Java, Python, C, C++, JavaScript, TypeScript, HTML, CSS, SQL, ROS, Swift
Libraries/Frameworks: Node.js, React, Bootstrap, pandas, NumPy, scikit-learn, seaborn, PyTorch
Tools/Database: Git, MySQL, PostgreSQL, GraphQL, Docker, Linux, AWS, GCP, CI/CD, Postman, Docker

Experience

Honeywell – Houston, TX   **May 2023 – Aug 2023**
Cyber Security Engineer Intern
- Developed an internal automation tool for firewall network mapping diagnosis in Python, projecting $10,000 in savings
- Crafted a configuration file processing tool for Cisco, Palo Alto, and other firewalls, saving 72 hours per assessment
- Detected and protected customers from potential threats by implementing cybersecurity vulnerability assessment
- Examined network traffic daily for suspicious activity and mitigated over 100 potential security breaches

Texas Smart Cities – Austin, TX   **May 2022 – Aug 2022**
Software Development Engineer, Research Assistant
- Built a full-stack website by integrating infrastructure data from 50+ cities open data portals into a MySQL database
- Designed RESTful APIs using Node.js, supporting over 10,000 concurrent users visit without performance degradation
- Streamlined Python pipelines to aggregate groundwork data from various sources, categorizing with 98% accuracy

China Telecom – Lanzhou, China   **May 2021 – Aug 2021**
Software Development Engineer, Intern
- Created a full-stack digital shopping complex website in HTML, CSS, JavaScript, featured 200+ detailed store pages
- Integrated a store locator feature in ReactJS, streamlining navigation and driving a 30% surge in user login interactions
- Implemented rigorous unittest and enforced code quality standard by pylint, achieving a 98% test coverage

Lanzhou Data Management Bureau – Lanzhou, China   **Dec 2020 – Feb 2021**
Data Engineer, Intern
- Upgraded public amenities record-keeping systems using PostgreSQL, achieving a 10% surge in data retrieval efficiency
- Utilized pandas, Numpy, and scikit-learn to ensure data integrity and relevance analyze community resources deficiency
- Adopted DevOps and Agile practices to enhance resident feedback, fostering rapid adaptation and team collaboration

Projects

Anti-Eviction Mapping | React, GraphQL, TypeScript, Sass   **Jan 2023 – Aug 2023**
Research Assistant
- Constructed data pipeline with GraphQL, aggregating over 5000 eviction records from Bay Area and New York
- Visualized eviction ranks and highlights Evictors in TypeScript, leading to a 50% increase in community awareness
- Designed an end-to-end UI/UX using Figma, and seamlessly transformed responsive prototype into operational website

Care Connect | React, MySQL, AWS, RESTful APIs   **Jan 2023 – May 2023**
Project Leader
- Architected a full-stack website to facilitate user healthcare decisions, aggregating data from over 10 reputable sources
- Structured back-end medical data using SQLAlchemy and linked it to a MySQL database with 10,000 medical records
- Employed Angular, HTML, CSS, and JavaScript on the front end to create the UI for flawless data presentation

SpotLight | ROS, Python, YOLO, OpenCV   **Sep 2022 – Dec 2022**
Project Leader
- Led an team in devising an AI solution using YOLO for spot robot to detect and track crosswalk signals movement
- Applied OpenCV including contouring and filtering techniques to enhance signal recognition precision by 30%
- Boosted detection accuracy to 96% by reviewing error data, optimizing angular velocity adjustments of robot

Mentorship

Women in Computer Science, *Mentor*
- Mentored 5 female freshman computer science students, providing academic guidance and early career advice

University of Texas at Austin CS Department, *Teaching Assistant*
- Instructed students to learn data structure, algorithm, robotics and iOS application development