

Prem Krishna Shankar

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EDUCATION

University of Texas Arlington

Master of Science in Computer Science

Arlington, TX

Aug. 2023 – May 2025

K Ramakrishnan College of Engineering

Bachelor of Engineering in Computer Science

Trichy, India

Aug. 2017 – May 2021

EXPERIENCE

Assistant Systems Engineer

Tata Consultancy Services

Aug. 2022 – July 2023

Chennai, India

- Managed client servers, reducing downtime by 50% and boosting client satisfaction.
- Developed and automated system-level tests for server management using control-M to ensure seamless operations and minimize downtime.
- Demonstrated strong debugging and troubleshooting skills by resolving critical system errors under tight deadlines, ensuring uninterrupted client services.
- Achieved 100% satisfaction rate during client site power outages in August 2022.

Assistant Systems Engineer - Trainee

Tata Consultancy Services

Aug. 2021 – July 2022

Chennai, India

- Monitored server disk space and resolved library errors using Remote Desktop Protocol.
- Coordinated with teams during power outages to safely shut down and restart devices.
- Collaborated on low-level server maintenance tasks and troubleshooting, gaining exposure to embedded systems and firmware-level operations, ensuring hardware-software integration for optimal performance.
- Won Best team Award for 100% customer satisfaction and effective power outage management

PROJECTS

Intelligent Security System | *Python, Numpy, Pandas, YOLO, OpenCV*

- Developed a python-based security camera system for ATM to monitor users and alert authorities if users spend too much time.
- Utilized YOLO, OpenCV, and Python for real-time monitoring and alerting.
- Published a paper on this system in the International Journal of Trends in Scientific Research and Development (June 2021, Volume 5, Issue 4).

Fotstrike | *HTML, CSS, JavaScript, Node.js, Express.js*

- Created a website providing live updates on matches, news, standings, and statistics for top football leagues in England, Spain and Italy.
- Integrated a football API to fetch real-time data, ensuring up-to-date information for users.
- Used HTML, CSS, JavaScript, Node.js and Express.js for development.

Phone book REST API | *Python, Flask, Sqlite3, Docker, Restful API*

- Developed a REST API for phone book operations including /get, /put, /post and /delete.
- Used Python Flask for the API and SQLite3 for the database.
- Deployed the application in a Docker container for easy distribution and management.

T-Shirt Website | *HTML, CSS, JavaScript, react, Three.js, Node.js*

- Developed a 3D t-shirt model website using Three.js, React, and Tailwind CSS.
- Implemented functionality for users to upload images as logos or full-shirt designs.
- Enabled interactive customization and real-time preview of t-shirt designs.

TECHNICAL SKILLS

Languages: C, Python, HTML/CSS, JavaScript, MySQL, Firebase

Frameworks: Flask, React, Node.js, Express.js, Tailwind CSS

Libraries: OpenCV, YOLO, Three.js, pandas, NumPy, Pytest

Tools: Git, Docker, AWS EC2, Linux, Control-M, Putty, Selenium, Postman

Embedded Systems Firmware troubleshooting, System-level test automation