

Education

Master of Science (M.S.) - Computer Science and Engineering

University at Buffalo, Buffalo, New York, USA

Aug'22 – Dec'23 (Expected)

Bachelor of Engineering (B.E.) - Computer Science and Engineering

BMS College of Engineering, Autonomous under VTU, Bangalore, Karnataka, India

Sep'14 – Aug'18

Technical Skills

Programming Languages: C, C++, Python, JavaScript, Go, Shell scripting, SQL/NoSQL, HTML, CSS

Packages: NodeJS - express, net, zeromq, jsonwebtoken, passport, scikit-learn, Numpy, Pandas, Matplotlib, Tensorflow

Tools and Technologies: Google Cloud Platform, cURL, Apache Avro, Flask server, Apache Kafka, Docker, Kubernetes, Hadoop, Spark, Poky Linux, PostgreSQL, Postman, Klocwork, Valgrind, WireShark, Fiddler, C1G2 protocol, LLDP and CDP protocols, Gerrit, Git, IBM ClearCase, JIRA

Experience

Zebra Technologies Pvt Ltd, Bangalore, Karnataka, India

Software Developer II

Nov'20 - Jul'22

- Contributed to high level designing and system architecture of Zebra's next flagship RFID reader.
- Migrated from Apache to Nginx webserver in the RFID reader.
- Added support for RNDIS, Wi-Fi connectivity (WPA supplicant, DHCP client), network services - SSH, SFTP/SCP, DHCP, NTP, IPv4/IPv6 on Yocto i.MX 8M Mini board.
- Implemented TCP socket, ZeroMQ socket communication to serve browser requests using RESTful APIs.
- Coordinated with Test and Validation team to maximize coverage in functional, regression, and sanity testing.

Zebra Technologies Pvt Ltd, Bangalore, Karnataka, India

Software Developer I

Jul'18 - Oct'20

- Delivered pilot evaluation of [SmartLens](#) (SL) reader application for one of the largest retail chains in US and Europe.
- Optimized proprietary algorithms in RFID readers for enhanced performance and adaptability.
- Implemented light-weight data transfer with Avro serialization thereby reducing the network traffic by one-tenth.
- Documented the SL reader application developer notes and outline of unit testing on each module developed.

Zebra Technologies Pvt Ltd, Bangalore, Karnataka, India

Software Developer Intern

Jan'18 - Jun'18

Implemented C socket program with NodeJS support to replace page functioning on Java Applets, blocked due to security threats on browsers. The page displays the RFID tags read by the [Fixed RFID readers](#).

Projects

Property Tax Analysis in West Roxbury

- Examined and studied dataset to identify the primary causes for total value of properties to rise and determine their tax.
- Followed the data science pipeline and ran Multiple linear regression, Decision tree, Random Forest Regressor, Support Vector Regression, KNN, Gradient Boosting Regression models.
- Created a web-application to visualize the process done.

Tools/Technologies: Python, Streamlit

Capstone Project Management Tool

- Enhanced the existing integrated platform to meet dynamic project management needs.
- Implemented detailed project cards and user profiles to streamline tracking and management.
- Categorized projects into types and supported diverse user roles for enhanced flexibility.
- Optimized performance by improving session management and promptly addressing bugs.

Tools/Technologies: MySQL, JavaScript, ReactJS, CSS, Postman

Hospital Management System

- Developed a patient-centric ecosystem for seamless access to healthcare services.
- Encompassed hospitals, labs, and doctor's database, providing patients with easy access to appointments, patient history, and billing information.

Tools/Technologies: PgAdmin 4, HTML, CSS, JavaScript, Python

Extra-Curriculum Activities

CSE Graduate Student Association, University at Buffalo

Secretary

Present