

Summary

Skilled 3+ years experienced software developer with a master's in computer science from Kent State University graduating in December 2024, bringing a rich blend of experience in software development. Proven expertise in developing and maintaining robust web and network applications using a variety of technologies, including Python, Java, Node.js, Django, and AWS. Experienced in Agile methodologies and tools like Jenkins. Experienced in Software industry as a developer with a strong foundation in object-oriented programming, data structures, algorithms, and CI/CD practices. Adept in API development, database management (SQL, NoSQL, MongoDB), and cloud services, with a strong foundation in object-oriented programming, data structures, algorithms. Strong communicator with the ability to collaborate across cross-functional teams to drive digital innovation and optimize strategies.

EDUCATION

Kent State University | [Master of Science, Computer Science](#) | OH, USA

May 2023 - May 2024 | GPA: 3.88 / 4.00

Lovely Professional University | Bachelor of Technology, Electronic and Communication Engineering | PB, India

Jun 2017 - Jun 2021 | GPA: 3.24 / 4.00

EXPERIENCE

SOFTWARE DEVELOPER | Client **XEROX**, Hindustan Computers Limited | Chennai, India

Aug 2021 - May 2023

- Worked as product integration core member in Xerox Developed new features, enhancements, and fixed bugs in Xerox Linux OS based Multi-Functional Printers using **C/C++**. Prepared High-Level Design documents and unit test case plans; conducted peer code reviews and testing.
- Managed data stored as config items, NVMS, and XML tags for inter-module communication. Experienced in **Agile** methodologies. Gained practical experience with **CI/CD tools like Jenkins**. Worked with Fault and Status to display error codes in the UI Linux operating System for end-user assistance and updating firmware using different type of Altboot techniques. Monitored and analyzed weekly reactive task counts, creating Detailed Analysis Reports (DAR) as required.
- Conducted comprehensive testing to prevent breakage in other modules. Gathered and reviewed technical specifications from product owners and system engineers. Addressed code review comments and ported code changes across different streams.
- Led triage activities, including support, review, and mentoring new joiners. Monitored and analyzed weekly reactive task counts.

SKILLS

- Languages:** C, C++, Python, Java, JavaScript, C#, HTML, React, Blazor, Vue JS, SQL, Firebase, PostgreSQL, Django, MongoDB
- Software and Tools:** Word, Excel, AWS, Node.js, RESTful API, Angular, Microsoft Azure, Web Accurev, Nodepad++, WINSCP, Tera Term, Putty, Linux Graphical Interface, Word, Excel, MATLAB, SQL, VS code, Easy-EDA, Thinker-CAD, LabVIEW, OpenCV.
- Hardware and Electronics:** Embedded Programming, Arduino, Raspberry Pi, 3D Printing, 3D Modelling
- VCS:** Accurev, Git, Azure
- CI Tools:** Jenkins, GitHub Actions
- Defect Tracking Tools:** JIRA

PROJECTS

Pedestrian Awareness Detection | Machine Learning, Python, PyTorch, OpenCV, YOLO, Kaggle, Roboflow

- Developed and implemented YOLOv5 models (YOLOv5s.pt and YOLOv5n.pt) for real-time prediction of pedestrian behavior.
- Emphasizing the crucial role of detecting pedestrian awareness and intention during road crossings for enhanced road safety.

Secure Chat Application | Angular, JavaScript, Firebase, NoSQL, CryptoJS, Image Steganography

- Spearheaded the development of Secure Chat, a pioneering communication platform offering a seamless user experience and fortified security features.
- Incorporated modern internet security protocols and intuitive UI elements akin to mainstream chat applications.
- Ensured end-to-end data encryption through CryptoJS, guaranteeing privacy and confidentiality.
- Leveraged Image Steganography for discreet message transmission within images, optimizing performance and user acceptance.

Snake and Ladders multi player web game in GITHUB | Python, Nodejs, GITHUB, HTML, CSS

- I've developed a game using Python, Node.js, HTML, and CSS, featuring various modes like zero-player demo, single-player vs. computer, and double-player games. Players interact with the game through a web interface, with real-time communication facilitated by Node.js for multiplayer matches.
- The game includes animations for player movements, ladder climbs, and snake descents, ensuring an engaging and visually appealing experience. Automated tests validate the game logic, while manual verification ensures the functionality of all game modes, offering a comprehensive and enjoyable gaming experience.

Food Delivery Bot | Linux OS, Robotics Development, ROS2, Media pipe, Arduino, Label studio, PyQt, RViz, Turtlebot3, SLAM, Raspberry Pi

- Developed a food delivery robot leveraging the Turtlebot 3 platform and ROS 2 Humble operating system. The robot incorporates autonomous obstacle avoidance for safety and real-time high-precision positioning for smart navigation in real-time.
- The robot to autonomously navigate to the kitchen area and localize the correct delivery table. A Graphical User Interface (GUI) facilitates easy order placement and provides real-time updates on order status.

CERTIFICATION

- C, C++** | COURSERA
- PYTHON** | COURSERA

