

ERROLL BARKER

Software Engineer

ABOUT ME

Passionate Software Engineer with 6 months of experience as a Front-End Development Team Lead. Proficient in C and Java, I have successfully developed projects including face recognition software, mobile apps, web pages, a navigation bot, databases, and ethical hacking scripts.

CONTACT

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- <www.linkedin.com/in/rr-ll-software>

SKILLS

- Java, C
- HTML, CSS, JS
- Python
- MySQL, mongoDB
- React, Angular, nodeJS
- AI (DeepSeek), Machine Learning
- Script Automation

EDUCATION

Bachelor of Science | Software Engineering
Iowa State University, Ames **Spring 2026**
Minor in: Cyber Security

High School Diploma | Sigourney, Iowa
Sigourney Jr-Sr High School **Spring 2022**

For More Information about me



This QR Redirects to
My Personal Website
that I made.

WORK EXPERIENCE

- Iowa State University, Endpoint** 10/2023 - PRESENT
IT Support Mac Technician
 - **Device Management:** Managed over 4,000+ Mac and Dell devices using Jamf, AWS, and ServiceNow.
 - **Data Backup and Handling:** Conducted data backups and ensured data security during transfers.
 - **Hardware and Software Support:** Diagnosed and resolved client hardware and software issues.
- Sigourney Area Development Corporation** 07/2022 - 01/2023
Front-end Developer and Coder
 - **Solution Development:** Collaborated with development and testing teams to create robust, scalable software solutions.
 - **Interface Improvement:** Worked with engineers to evaluate and enhance software interfaces.
 - **Code Modernization:** Updated legacy code to meet modern development standards.
 - **Project Collaboration:** Communicated with management and partners on software design and project progress.
- Walmart** 06/2021 - 10/2023
Electronic Sales Associate
 - **Technical Support:** Resolved customer technology issues over the phone and in person.
 - **Customer Service:** Provided knowledgeable and friendly support throughout the shopping experience.

PROJECTS

- Local DeepSeek Training:**
 - Trained a localized DeepSeek-R1 model (7B, 8B, 14B) on a personal Ubuntu server, focusing on natural language processing and machine learning research. Optimized dataset preprocessing and model fine-tuning to enhance performance in specialized tasks.
- Embedded systems face recognition**
 - Developed a real-time face recognition and gesture-controlled camera tracking system using Python, OpenCV, and Raspberry Pi 4B. Integrated Pi Camera Module 3 with SG90 servos for smooth pan-tilt tracking of a specific user's face. Added custom hand gesture commands for controlling camera actions like start/stop tracking, enabling hands-free interaction.
- Front-End Website**
 - Designed and developed a responsive front-end website using HTML, CSS, and JavaScript. Focused on user-friendly UI/UX, interactive features, and seamless navigation to enhance user engagement and accessibility.
- Android Mobile App**
 - Developed a native Android application using Java, featuring API integration, ChatGPT-based AI responses, user authentication, real-time database connectivity, and push notifications. Designed a smooth and efficient user experience, including both front-end UI and back-end logic.
- CVE-2024-30078 Webhook Exploit (Kickstarter ATtiny85)**
 - Researched and developed an exploit for CVE-2024-30078 using ATtiny85 to demonstrate a webhook-based security vulnerability. Conducted penetration testing and explored ethical hacking techniques to analyze potential risks. Contributed to responsible disclosure for security improvement.