

ERROLL BARKER

Software Engineer

SUMMARY

Software Engineering student (Spring 2026) building React/Next.js products and Java/Android apps, with strong API integration experience (Stripe, HubSpot, OAuth). Applied AI/automation experience using OpenAI API and local LLMs on Ubuntu.

CONTACT

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 errollbarker1234@gmail.com

 Ames, IA (open to relocation)

 <https://github.com/Jr24Future>

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

TECHNICAL SKILLS

- Languages:** Java, Python, TS/JS, SQL, Bash
- Frontend:** React, Next.js, HTML, Bootstrap, CSS/SCSS
- Backend:** Node.js, REST APIs, MySQL, Git, Docker
- Mobile:** Android (Java), OkHttp
- Cloud:** AWS (EC2, S3, RDS), Azure
- AI/ML:** OpenAI API, Ollama
- Systems:** pfSense, OpenVPN, SSH, Fail2ban

EDUCATION

IOWA STATE UNIVERSITY | Ames, IA

B.S. in Software Engineering

- Minor: Cyber Security Expected Spring 2026

Languages: English (Fluent), Turkish (Fluent)

For More Information about me Visit
My Personal Website jr24future.github.io



See my:

- projects,
- experience,
- History,

and why I'm a strong fit.

WORK EXPERIENCE

Iowa State University, Endpoint

10/2023 - PRESENT

IT Support Mac Technician

- Automated macOS workflows with Bash/zsh scripts; validated during OS releases.
- Supported Jamf Pro + ServiceNow + ASW operations across 4,000+ endpoints.
- Performed advanced troubleshooting and remediation via Terminal/local access.

Sigourney Area Development Corporation

07/2022 - 01/2023

Front-end Developer and Coder

- Rebuilt a GoDaddy site into a custom app with MySQL + Docker.
- Migrated Angular, then to React; shipped key flows in React + Next.js + Bootstrap.
- Integrated Stripe, HubSpot CRM, and Google OAuth/Sign-In.
- Partnered with Node.js back end to validate async rendering and end-to-end flows.
- Added a customer-facing chatbot using the OpenAI (ChatGPT) API.

WALMART

06/2021 - 10/2023

Electronics Sales Associate

- Provided customer-facing technical troubleshooting and clear communication in a high-volume environment.

PROJECTS

JR - Personal GenAI Assistant (python, Ubuntu Server, OOpenAI API)

- Runs on an Ubuntu server (VM-accessible) and automates notes, summaries, and file/folder workflows.
- Identity-gated via database allowlist; supports face/voice/gesture inputs and optional Git publishing on request.

Financial Companion Android App (Java, OkHttp OpenAI API)

- Built an Android finance app with trends, recommendations, and a ChatGPT-driven chat UI.
- Integrated stocks, currency exchange, charts, and PDF to structured data then to Excel export

Secure Ubuntu Server+TrueNAS Homelab (pfSense, VMware, OpenVPN, ZFS snapshots)

- Deployed TrueNAS with snapshot backups; hosted services such as MySQL, Git, and DNS; secured remote access using pfSense firewall policies, OpenVPN, SSH, and Fail2ban.

Embedded Face Recognition (Python, OpenCV, Raspberry Pi)

- Built a real-time face recognition and gesture-controlled camera tracking system using Python, OpenCV, and Raspberry Pi.
- Integrated camera + servo control to track an authorized user and respond to custom gesture commands.

CVE-2024-30078 Webhook Exploit (Kickstarter ATtiny85)

- Conducted personal security research in an isolated VM environment and built an ATtiny85-based USB HID proof-of-concept to model keystroke-injection risk.
- Implemented controlled telemetry validation to a self-hosted receiver endpoint using non-sensitive test data and documented defensive mitigations.