SARAH EATHERLY

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SOFTWARE ENGINEER

Full-stack Software Engineer passionate about using technology to solve real-world healthcare challenges. At Banyan Labs, I build AI-powered applications that transform complex data into actionable insights, including voice assistants for knowledge retrieval and predictive models for housing risk assessment. I focus on creating accessible, user-friendly interfaces that serve diverse user groups while maintaining high performance and scalability. Experienced in rapid feature development using modern web technologies and AI coding assistants.

SKILLS

Front-End: HTML5, CSS3, JavaScript, TypeScript, React, Redux, Next.js, Tailwind CSS, Material-UI
Back-End: Node.js, Python, Express.js, MongoDB, PostgreSQL, RESTful APIs, Ruby on Rails
AI & Machine Learning: Retrieval-Augmented Generation (RAG), Risk Prediction Models, AI Application Development, OpenAI API Integration, Model Fine-tuning
Tools & Methodologies: Git, GitHub, Jest, Postman, Figma, Docker, AWS (EC2), Supabase, CI/CD, Agile (Scrum), Nginx

PROFESSIONAL EXPERIENCE

Banyan Labs Remote
Software Engineer May 2025 – Current

- Built an AI voice assistant for client workflows—hands-on coding while guiding a small cross-functional team from prototype to pilot.
- Implemented RAG to use the client's own knowledge, with simple intent routing and short-term memory so answers stay grounded and useful.
- Shipped the assistant as a Next.js + React app with a Supabase vector database; tuned the speech experience to feel quick and natural.
- Worked closely with stakeholders—listened first, turned asks into clear stories, and kept privacy & safety a priority.

UpUnikSelf Remote
Front End Developer Intern September 2024 – March 2025

- Improved user engagement by 30% through responsive design optimizations for mobile and desktop platforms using React and Tailwind CSS.
- Collaborated with a team of 15 developers to build scalable React components, achieving a 95% approval rate from senior developers and stakeholders.
- Implemented React Hooks and standardized styling to reduce inconsistencies, enhancing code maintainability and overall user experience.
- Resolved cross-platform compatibility issues, ensuring consistent performance and accessibility across all devices and browsers by conducting thorough testing and optimizations.

PROJECTS

Bloom Housing Risk Prediction System (Exygy Partnership)
AI/ML Risk Assessment | Python, XGBoost, Machine Learning, Platform Integration

- Developed and trained an XGBoost machine learning model to predict housing instability risk based on housing application data for Exygy's Bloom Housing platform
- Implemented predictive analytics solution to identify individuals at high risk of becoming unhoused, enabling proactive intervention and resource allocation
- Integrated trained model with existing Bloom Housing platform infrastructure, ensuring seamless deployment and real-time risk assessment capabilities
- Collaborated with housing services stakeholders to translate complex ML predictions into actionable insights for case management and support services

BlueZack
YouTube-Inspired Video Platform | MERN Stack (MongoDB, Express.js, React, Node.js), YouTube API, Redux, JWT

- Developed a full stack video streaming application with custom backend APIs for user authentication, playlist management, and commenting features.
- Integrated YouTube API for seamless video data retrieval and playback functionalities.
- Utilized Redux for state management, optimizing data flow and enhancing application performance by 20%.

Fyre Tunes
Music Discovery Platform | MERN Stack, Spotify API, AWS EC2, JWT, OAuth 2.0, Nginx

- Created a full stack music discovery app integrating the Spotify API with OAuth 2.0 for secure song data access and embedded music player functionality.
- Deployed the application on AWS EC2 with Ubuntu, Nginx, and SSL, ensuring secure and scalable user access.

EDUCATION

Justice Through Code, Columbia University Remote
Software Engineering September 2024 – June 2025

- Advanced coursework in full stack development, data science fundamentals, and cutting-edge AI technologies
- Specialized training in Artificial Intelligence (AI), Machine Learning Operations (MLOps), and serverless computing
- Hands-on experience with AI model integration, prompt engineering, and intelligent application development
- Applied machine learning techniques to real-world challenges including housing risk prediction and social impact AI solutions

Persevere Remote
Full Stack Software Development July 2023 – May 2024

- Completed comprehensive training in full stack development with hands-on projects like Fyre Tunes and BlueZack.
- Gained expertise in API integration, responsive web design, and agile development practices.

LEADERSHIP & COLLABORATION

AI Project Leadership: Currently leading multiple AI development teams at Banyan Labs, driving innovation in MCP agent architecture and intelligent application development

Technical Mentorship: Actively mentor aspiring developers at Persevere, providing code reviews and project guidance with focus on AI integration best practices

Industry Collaboration: Working with Eric King from Epic Games on an Unreal Engine showcase project utilizing Ruby on Rails and AI-enhanced gaming experiences

Professional Development: Continuous learner in emerging AI technologies, maintaining expertise in latest developments in machine learning, LLMs, and intelligent automation