Matthew Bennett

✉ trashlinkmain@gmail.com ☐ +1 217 493 8429 in in/matthew-bennett-592102252 ☁ portfolio-v3-jet.vercel.app

SUMMARY

Results-oriented Full Stack Developer with expertise in designing, building, and deploying scalable web applications. Proficient in frontend and backend development, I deliver high-quality, user-centric solutions. Agile leader with a proven track record of successful project completion.

EXPERIENCE

Software Developer(Full Stack)

John Deere   **May 2022 - Present, Ames, IA**

- **Led and contributed to high-impact projects in agile environments affecting 5,000 employees.** Collaborated with Project Managers to design user stories in Jira and plan application architecture. Implemented Infrastructure as Code (IaC) using Terraform and established CI/CD pipelines in Jenkins for efficient, reliable deployment.
- **Primary Project - Tracktor:** Spearheaded the development of a skill tracking web app. Technologies: AI, Next.js, AWS, Terraform, Postgres, Jenkins, OAuth, MUI, SCSS

  Key Contributions: Design & Development: Architected and developed the application from design (Figma) to implementation, using MUI and adhering to Deere standards for a safe and responsive app. Database & API Integration: Designed database schema, API r routes, and set up cron jobs to auto-populate teams based on HR data. Integrated with company APIs for seamless user authentication via Okta. Responsive Data Flow: Implemented a responsive data flow using global state management (atoms), ensuring efficient data   handling and interaction.
- **Secondary Project - SAC App:** Co-led development of a security access control app, now used by 5,000+ employees. Technologies: Next.js, Terraform, PostgreSQL, AWS Lambda, API Gateway, SSR, Data Caching

  Key Contributions: Redesigned Data Flow: Completely gutted and redesigned the data flow, migrating the app to SSR for improved performance and security, affecting employee access to the application on a company-wide level. Infrastructure & Access Management: Built AWS API Gateway, Terraform infrastructure, and Lambda functions to enable dynamic access management, ensuring secure and efficient operations at scale. File Handling & Integration: Streamlined file handling by converting XLSX files to binary strings and vice versa, ensuring secure transmission to and from S3 using AWS SDK.

Web Developer

Freelance   **January 2023 - Present, Remote**

- **Managed full-stack development of dynamic web applications**, overseeing architecture, UI/UX design, frontend development with Next.js and Framer Motion, backend integration, and production deployment.
- **Independently led and delivered 2 high-impact projects**, utilizing cutting-edge technologies to create robust, responsive websites under tight deadlines.
- **Collaborated closely with clients** to gather requirements, iterate on designs, and ensure seamless deployment, achieving 100% client satisfaction and fostering long-term partnerships.

Engineering Intern

Cabot   **May 2021 - August 2021, Tuscola, IL**

- **Conducted a comprehensive analysis** on silica bagging pipelines, identifying bottlenecks and recommending process improvements. This analysis led to the purchase of a 33k cyclone machine and subsequent production efficiency gains.
- **Collaborated with a team of 5 engineers** to investigate a factory spill incident. Developed a detailed incident flowchart for the EPA within 2 weeks, aiding in compliance and prevention efforts.
- **Designed and implemented VBA scripts** to streamline data analysis and reporting processes within Excel, resulting in a 30% reduction in manual data entry time.

PROJECTS

Kev.FM

- Kev.FM is a react full-stack music discovery app with social sharing and Spotify integration via custom API and scrobblers. It eliminates external logins, showcases recent songs, tracks top artists, and achieves a 97 Vercel Monitoring score.
- **Tech Stack:** Next.js, Backend API, Server-Side Functions (SSF), React Hooks.

DababyMod

- DaBaby Mod is a Minecraft Forge mod written in Java featuring complex AI system (20+ behaviors), custom mob, items, and interactive gameplay. Leveraged Minecraft Forge API for compatibility with other mods and utilized advanced Java programming techniques to design and implement the AI system.
- **Tech Stack:** Object-Oriented Programming, Project Management, Minecraft Forge, Java.

Dash

- DASH is a scalable full-stack task management app (Next.js, Figma design) that tackles task fatigue with a clean interface and 20% faster completion times. Leveraged SSR, route caching, and OAuth for a lightning-fast, secure experience (95% Google PageSpeed).
- **Tech Stack:** Next.js, PostgreSQL, Prisma, OAuth, Vercel, GitHub Actions, DevOps Insights.

EDUCATION

Bachelor of Science in Software Engineering

Iowa State University • 2025

SKILLS

DevOps: Docker, Jenkins, Terraform, Git, GitHub, GitHub Actions, Jira, AWS (S3, ECS, Lambdas, API Gateway, EC2, RDS, CloudWatch)

Backend: MongoDB, Postgres, MySQL, PrismaDB, Java, Python

Frontend: HTML, CSS, JavaScript, SCSS, React, Next.js, MUI