

# Lydia Bandy

## Software Engineer

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### SUMMARY

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I am a **Full-Stack Software Engineer** with over three years of experience developing **scalable SaaS platforms** and 25 years **leading educational initiatives and digital strategy**. With expertise in **TypeScript, React, Node.js**, and **Prisma ORM**, I deliver high-performance, secure solutions that enhance user experiences. I combine a background in leadership, product thinking, and creativity to solve complex problems and drive innovation in agile, cross-functional teams. Passionate about **solving enterprise-scale challenges**, I'm eager to contribute my skills and make a meaningful impact on a dynamic team.

### PROFESSIONAL EXPERIENCE

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#### TechJoy Software, Remote | *Junior Developer* | 2024-Present

- Developed and maintained a non-profit website for local businesses using agile (Scrum) methodologies—facilitating stand-ups, sprint planning, and backlog prioritization—to rapidly iterate on features and resolve issues. This approach **reduced development cycle times by 15%** and **increased user engagement by 20%**.
- Mentored interns and boosted **team productivity by 50%** by streamlining **remote collaboration** and overseeing feature development with **detailed ticketing systems and PR reviews**.
- Resolved critical 500 error bugs, reducing unit **test failure rates by 35%**.
- Improved onboard productivity by **40% with standardized documentation**.
- Reduced load times by **15% through algorithm optimization**.
- **Achieved 90%** code reliability with **Vitest unit testing**.
- **Boosted team efficiency by 45%** through custom GitHub workflow optimizations and resolution of a persistent GitHub Actions bug, **cutting scrum-related delays by 40%**.
- **Implemented API routes for ad banners**, optimizing load times and increasing **ad revenue by 30% through efficient data handling and dynamic content delivery**.

#### Independent Contractor | *Web Developer/Site Administrator/Virtual Assistant* | 2022-Present

- Designed and developed responsive, **SEO-optimized websites** and custom **WordPress** applications using marketing tools—**boosting brand visibility by 80%** and **increasing user acquisition by 50%**.

#### Lydia's Piano Studio | *Business Owner* | 2000-2024

- **Founded and managed an award-winning music studio**, increasing **client retention by 70%** through strategic marketing while maintaining **95% client satisfaction** with high-quality education and efficient scheduling.

## KEY PROJECTS

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- **Data Structures Web Series:** Pioneered an innovative series integrating **music theory** with **data structures and algorithms** in **Python**, simplifying complex programming concepts through creative, educational content.
- **Interactive Music Learning Tools:** Developed a piano practice log app using **Next.js**, **React**, **Tailwind CSS**, and **Prisma ORM**, and a music history trivia game built with **React**, **TypeScript**, **Vite**, and **Material UI**—boosting user engagement and enhancing learning outcomes.
- **ChatGPT-Powered Application:** Built a **ChatGPT clone** using the **MERN stack**, demonstrating expertise in AI integration and dynamic user interaction.
- **Software Engineers Support Group:** **Founded a peer mentoring group** to help engineers build confidence in technical skills through collaboration and skill-building sessions.

## EDUCATION & CERTIFICATIONS

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- **Joy of Coding Academy, Remote** – *Software Engineering*
  - Key Courses: Data Structures, Computer Science Fundamentals, Algorithms, Software Development
- **SoloLearn, Remote** – *Full-Stack Web Development Certification*
- **McDaniel College, Westminster, MD** – *Bachelor of Arts*

## KEY SKILLS & TOOLS

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- **Core Competencies:** Team Leadership, API Development, UI/UX Design, Debugging, Agile Software Development, JWT, RESTful APIs, Responsive Design, SEO Optimization, Secure Authorization, ChatGPT Integration
- **Languages:** JavaScript, TypeScript, Python
- **Frameworks & Libraries:** React, Next.js, Node.js, Express.js, Prisma ORM, Bootstrap, Tailwind CSS, Radix UI, Material UI
- **Databases:** MySQL, MongoDB, PostgreSQL
- **Tools:** AWS, Docker, Postman, Axios, Git, GitHub, VS Code, Vite, Vitest, Vercel

## AWARDS

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- Valedictorian, Littlestown Christian Academy – 2000

## VOLUNTEER EXPERIENCE

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USO Entertainer

2015-2019

- Provided entertainment for military personnel and organized lounge events.

## HOBBIES

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- Avid world traveler, retro gamer, and D&D player, fostering creativity, teamwork and problem-solving skills.