Shaun Mathew

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EDUCATION

Rutgers University   New Brunswick, NJ
Bachelor of Science in Computer Science   *September 2022 – May 2026*

Relevant Coursework: Data Structures, Discrete Structures, Computer Architecture, Data Management, Software Methodology, Algorithms, Programming Languages, Data Science

EXPERIENCE

Software Engineer Intern   June 2025 – August 2025
UBS   *New York, NY*

- Engineered backend microservices for the Regulation Best Interest (RegBi) Contact Notes app using Java, Spring Boot, and Apache Kafka, enabling real-time advisor–client tracking across globally distributed systems.
- Built a full-stack log analysis tool with React, Python, Next.js, and Bash to automate parsing of multi-server logs, adding AI-powered error summaries for non-technical users, reducing error diagnosis time by 40%.
- Advanced to global finals in UBS's firm-wide hackathon (6,300+ participants) by building an AI-powered code quality tool that automatically fixed critical code quality issues, reducing resolution time from 2.5 hours to 8 minutes and lowering unresolved issues by 91%.
- Deployed and scaled microservices on Microsoft Azure, enhancing uptime and performance for applications used daily by thousands of financial advisors worldwide.

PROJECTS

Chatbridge | *Python, Flask, SpaCy, JavaScript, HTML/CSS*   August 2024

- Developed a Flask-based chatbot with SpaCy-powered natural language processing to extract user intents and entities, enabling accurate multi-turn conversation handling.
- Integrated external APIs for real-time weather, news, and language translation, with asynchronous requests to minimize latency and improve responsiveness.
- Built a fully responsive web interface and implemented session tracking to preserve chat context across user interactions, enhancing the user experience in sequential queries.

Fresh Finder | *Flask (Python), Chart.js, HTML/CSS*   May 2024

- Built and deployed a full-stack NBA statistics web app with Flask, enabling real-time search across 500+ players and 30 teams with dynamic routing and autocomplete.
- Reduced API latency by 60% using in-memory caching and debounced input handling, enhancing scalability and responsiveness under concurrent usage.
- Engineered interactive data visualizations with Chart.js to surface advanced player and team metrics from 1,000+ NBA games, enabling real-time trend analysis in a fully responsive UI.

Personal Portfolio | *Next.js (React), Tailwind CSS, Vercel, JavaScript, HTML/CSS*   January 2024

- Built and deployed a fully responsive portfolio website using Next.js and Tailwind CSS to showcase technical projects, resume, and contact information.
- Integrated interactive project cards and GitHub/LinkedIn links to highlight engineering work and professional presence.
- Optimized for SEO and mobile-first performance, deployed via Vercel with custom domain configuration.

SKILLS

Languages: Python, Java, JavaScript, HTML/CSS, SQL (Postgres, MySQL)
Frameworks/Libraries: React, Next.js, Flask, FastAPI, Spring Boot, Node.js, Chart.js, Pandas, NumPy, spaCy, JUnit
Tools: Git, GitHub, GitLab, Postman, Firebase, Maven, Redis, Apache Kafka, Render, Vercel
Concepts: REST APIs, Microservices, Distributed Systems, CI/CD, Cloud Computing (AWS, Azure), Agile (Scrum)
Certifications: AWS Certified Cloud Practitioner, Microsoft Azure Fundamentals