Noah Barkat

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Education

University of Minnesota Twin cities **Expected Grad - May 2027**
Bachelors in Computer Science *Saint Paul, MN*
Relevant Courses:, Data Structures and Algorithms, Object-Oriented Programming, Programming fundamentals, Python, Discrete Math, Calculus I, Calculus II, Physics

Technical Skills

Programming Languages: Python, Java, C/C++, JavaScript, TypeScript, HTML/CSS
Developer Tools/Platforms: Amazon Web Services (AWS), PostgreSQL, MongoDB, Docker, Git, GitHub, BetterStack, Jupyter Notebook, k6, Redis, Redux, Stripe, OpenAI API
Frameworks & Libraries: React, Next.js, Django, Spring Boot, Node.js, Prisma
AI/ML Tools: Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), Embeddings, OpenAI
Certificates: CodePath Technical Interview Prep

Experience

Software Engineer Fellow **June 2024 - Aug 2024**
HeadStarter AI *NYC- Remote*
- Built and deployed **5 AI-driven** projects tailored to solving real-world business problems, including an AI chatbot for company website navigation.
- The AI chatbot improved user experience by helping users quickly access key areas of the company website, leveraging conversational AI.
- Led development using **React.js, Next.js, OpenAI, and MUI**, Implemented **agile methodologies** with weekly sprints, and **integrated CI/CD** pipelines to ensure smooth, continuous deployments and fast iteration cycles.

Software Engineer Fellow **May 2024 - Aug 2024**
Tech Cadets *Remote*
- Developed a **full-stack** web application to help students efficiently coordinate schedules and reduce the time spent finding overlapping free periods by **50%**.
- Improved group coordination and user productivity by streamlining the scheduling process.
- Built the app using **Next.js, Typescript, Python, Django, and Firebase**, implementing features to compare availability and automatically generate group schedules.

Projects

SkySight - | Live Demo | **Sep 2024**
- **Built and deployed** a full-stack job application tracker using **React, Typescript, Express, Docker, AWS EC2, K6, Railway, MongoDB and Prisma** to help users easily organize and track job applications, providing them with **features like pagination, search, and status updates** for streamlined management. Gaining over **300+ Users**
- Reduced infrastructure costs by **40%** and improved backend response times by **30%** by switching from serverless functions on Vercel to an **Express.js backend hosted on Railway**, ensuring cost-efficient scaling as the user base grows.
- **Implemented logging** to proactively track API performance and errors, allowing for quicker debugging **and 20% faster issue resolution**, improving system reliability for end users.
- **Conducted load testing**, and optimized request handling to improve system performance by **25%** and reliability.

AI Rate My Professor - | Github | **Aug 2024**
- **Developed an AI-powered platform** that allows users to rate professors based on their teaching style and personality, providing more personalized feedback for future students.
- Created this platform to enhance the decision-making process for students by leveraging AI to generate personalized ratings based on both subjective and objective feedback.
- **Built** the application **using React and Next.js** for the frontend and **Python for handling AI logic** and backend data processing. **Integrated RAG (Retrieval-Augmented Generation) and Embeddings** to power the AI model, which analyzes professor reviews and generates accurate ratings.

AI Flashcards w/Stripe - | Github | **Aug 2024**
- **Designed and implemented** an AI-powered flashcards platform that generates, stores, and manages unique flashcards, helping users study more efficiently.
- Engineered the frontend **with React and Next.js** to deliver a responsive and intuitive interface. Leveraged **Firebase for data storage and retrieval**, ensuring persistent flashcard access. **Integrated Clerk** for secure user authentication **and Stripe API for subscription management**. Utilized OpenAI API to dynamically generate **10** flashcards per user input, tailored to user preferences.