Alex Terskin

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EDUCATION

University of Maryland, College Park   Expected Winter 2024
Bachelor of Science, Computer Science;
Honors and Awards: Dean's list 2021

TECHNICAL SKILLS

Languages: Java, JavaScript, Python, TypeScript, C, Ruby, SQL, Dart, OCaml, Rust, XML
Frameworks: React, JUnit4, Node.js, Fast-API, Next.js, Three.js, PyTorch, Apache, Angular, SpringBoot
Developer Tools: Vercel, Git, Android Studio, MySQL, BitBucket, Pandas, Postman, Swagger, Jenkins

PROJECTS

ZIP Code Analyzer for First-Time Home Buyers - GMU Hackation   [Github](#) | [View Project](#)
- Created an interactive full-stack application using Next.js, TypeScript, Fast-API, and MapGL JS that helps first-time home buyers find optimal ZIP codes in Fairfax County, VA, based on customizable user criteria

AI/ML-Powered Drug Discovery Platform - UMBC Hackathon   [Github](#) | [View Project](#)
- Built and deployed an innovative AI-powered web app within 24 hours, applied artificial intelligence and machine learning to generate novel drug compounds for medical treatments
- Utilized: Python, FastAPI, Next.js, React, TypeScript, Tailwind CSS, 3Dmol.js, OpenAI API, Scikit-Learn, ChEMBL database

Personal Website   [Github](#) | [View Project](#)
- Developed a captivating personal website utilizing Vite, Three.js, Javascript, HTML, and CSS to highlight my projects

TerpTune   [Github](#) | [View Project](#)
- Developed a song database and review application using Flutter, integrating Spotify API and Google Firebase to support features such as registration/log-in, song playback, rating and reviewing, viewing top 100 Spotify songs, and a built-in recommendation system

PROFESSIONAL EXPERIENCE

Engauge   Summer 2024
[Education Technology Startup](#)
Software Developer Intern
- Designed a comprehensive tech stack to support MVP development, utilizing the FERN stack (Google Firebase, Express.js, React, Node.js). This choice was driven by the need for long-term scalability and performance optimization, aligning with our goal of building a highly scalable web application
- Developed both frontend and backend components, including a multi-factor login/registration system using React, JSX, and Google Firebase; a payment processing component using Stripe's payment processing API; and a teacher-student chat feature closely resembling a Twitch chat for enhanced interaction
- Successfully pitched a high-fidelity prototype and secured $60,000 in funding from investors

FINRA   Summer 2022
[Financial Industry Regulatory Authority](#)
Software Developer Intern
- Built multiple RESTful backend services using Java's Spring Boot framework to retrieve needed information from FINRA's technology division's development and testing databases
- Collaborated with frontend engineers to design a UI that monitors the health status of FINRA's E-FOCUS system using Angular, HTML, and CSS, providing the system health status in an easy to read dash-board format
- Learned the application DB model and relevant table relationships to build and test native SQL queries. Engineered and loaded test data to perform testing using AdminSQL and Postman