

Alexander Terskin

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EDUCATION

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

Expected Fall 2024

TECHNICAL SKILLS

Languages: Java, JavaScript, Python, C, Ruby, SQL, Dart, OCaml, TypeScript, Rust, XML

Frameworks: React, JUnit4, Node.js, Next.js, Angular, Apache, Three.js, PyTorch, Fast-API, SpringBoot

Developer Tools: Git, Android Studio, MySQL, BitBucket, Pandas, Postman, Swagger, Jenkins

PROJECTS

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. Additionally, developed JUNITs with optimal code coverage.