# Alex Terskin

terskinalex@gmail.com ‖ 301-775-9016 ‖ [Personal Website](#) ‖ [Linkedin](#) ‖ [GitHub](#)

## 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, FastAPI, Next.js, Three.js, PyTorch, Apache, Angular, SpringBoot
**Developer Tools:** Vercel, Git, Android Studio, MySQL, BitBucket, Pandas, Postman, Swagger, Jenkins

## PROFESSIONAL EXPERIENCE

**Engauge**  College Park, MD
**[Education Technology Startup](#)**  Summer 2024
*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**  Rockville, MD
**[Financial Industry Regulatory Authority](#)**  Summer 2022
*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

## PROJECTS

**ZIP Code Analyzer for First-Time Home Buyers - GMU Hackation**  [Github](#) | [View Project](#)

- Created an interactive full-stack application using Next.js, TypeScript, FastAPI, 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