

## DIANE KIM

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### EDUCATION

- Georgetown University**, *College of Arts & Sciences* | Washington D.C. June 2027
- B.Sc. in Computer Science, Minor in Cognitive Science | Major GPA: 3.7
  - Relevant Coursework: Multivariable Calculus; Linear Algebra; Data Structures and Algorithms; Computational Structures; Advanced Programming (Java)
- Horace Mann School** | Bronx, NY June 2022
- Unweighted GPA: 3.9

### EXPERIENCE

- KeepUp**, *Product Design & Software Engineering Intern* May 2024 - Current
- Redesigned and refactored the product architecture of the original React web app, implementing scalable and modular design principles to address usability challenges and elevate the MVP into a fully functional, user-centric product.
  - Developed and integrated new features using React, optimizing app performance and ensuring high-quality, maintainable code.
  - Developed design prototypes on Figma by collaborating closely with stakeholders to meet user needs and business objectives.
- Hoyalitics**, *Data Analyst* January 2024 - May 2024
- Designed the program's most innovative and impactful model using techniques such as density-based clustering (DBSCAN), dimensionality reduction (UMAP), and natural language processing (NLTK Word Embeddings).
  - Achieved the highest scores in a cohort of over 75 participants in the program's final evaluations.
- Hoya Developers**, *Founding Board Member, Senior Project Manager, Software Engineer* July 2023 - May 2024
- Established Georgetown's premier software development club; coordinated high-stakes, semester-long projects with real clients to offer students valuable technical experience.
  - Key projects:
    1. **Pavilion** | January 2024 - May 2024
      - Developed a full-stack matchmaking platform for students studying abroad using React Native and Firebase.
      - Engineered a chat messaging system, matchmaking directory, and community-building forum.
      - Designed high-fidelity product mockups using Figma to guide the app's UX/UI design.
    2. **Hilltop Microfinance Initiative Website** | August 2023 - January 2024
      - Developed and deployed a NextJS & React web app for the nation's largest student-run microfinance initiative, Hilltop Microfinance Initiative (<https://www.hilltopmfi.org/>).
- HM on Tech**, *Founder & Project Manager* September 2020 - June 2022
- Developed and deployed a React-based platform to centralize school events and publications, employing **JavaScript** for dynamic UI components.
  - Built and managed backend infrastructure using **MySQL**, ensuring robust data storage and retrieval to support user interactions.
  - Led a team to deliver a scalable, maintainable solution that addressed critical student body needs.
- Summer Stem Institute**, *Student Researcher* June 2020 - August 2020
- Researched and optimized an ML solution for the ASVspoof Challenge, enhancing a CNN-GRU's efficiency in detecting replayed speech attacks using OpenL3 audio embeddings.

### SKILLS & LANGUAGES

**System Proficiencies:** Git, Trello, Figma, G Suite, Linux Command Line, Database Management (Firebase, MySQL, PostgreSQL), Data Science/ML Frameworks (Pandas, Scikit-learn, Matplotlib, NumPy)

**Programming & Development:** C++, Java, Python, JavaScript, ReactJS, React Native, NextJS, NodeJS, Tailwind CSS