ANDREW HONG

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Education

University of Maryland, College Park (August 2019 – May 2023)

- Double Degree, Computer Science & Physiology and Neurobiology
- Honors College: Integrated Life Sciences
- GPA: 3.96, Cum Laude
- Banneker Key Scholar - merit-based full-ride scholarship to UMD applicants

Skills

- Programming Languages: Python, Typescript, JavaScript, Java, C++, HTML/CSS, SQL, OCaml, Ruby, C, C#, MATLAB
- Technologies: React.js, Node.js, Express, MongoDB, Git, Google Cloud, Google Earth Engine

Experience

Bloomberg (August 2023 – Present)

Software Engineer

- Developed and maintained high-performance, full-stack **Bloomberg Terminal** applications using **C++**, **Python**, and **TypeScript** to optimize buy-side workflows for thousands of daily users
- Helped lead the release of a newly redesigned Bloomberg Terminal function by designing and implementing a robust, scalable message queueing system for the migration of previous users
- Ensured exceptional application quality through rigorous testing with **Google Test**, **Pytest**, and **Jasmine**, as well as proactive monitoring using **Humio** and **Grafana**.

CoStar Group (June 2022 – August 2022)

Software Engineering Intern

- Developed a reusable "Gallery View" component that displays properties with interactive cards
- Retreived data using data fetchers and styles component based on given props
- Fully integrated and utilized in multiple CoStar search products
- Created using React, Typescript, and Storybook

National Aeronautics and Space Administration (NASA) Harvest; Dr. Hannah Kerner

Machine Learning Intern (June 2021 – December 2021)

- Helped publish a customized app using Survey123 and ArcGIS that collects crop data
- Utilized Google Cloud Run and Function to streamline ML analysis of a boundary box
- Compared and tested ML models to determine the most cost-effective, efficient model

National Institutes of Standards and Technology (NIST); Dr. T. N. Bhat Lab

Full Stack Web Developer Intern (May 2020 – May 2021)

- Published randr19.nist.gov, an online dataset containing 100,000+ search terms that utilizes NIST-developed "root and rule" to provide users with information on COVID-19
- Created knowledge graph that visualizes connections between terms using three.js
- Designed using SQL Server, JavaScript, C#, HTML, CSS, and Bootstrap

Projects

Refresh (May 2022)

- Productivity website that allows users to create tasks lists and view the weather and news
- Front-end developed using HTML/CSS and JavaScript
- Back-end developed using Node, Express, and MongoDB

Impact of COVID-19 on Student Performance (July 2021)

- Collected and organized data on academic performance using Pandas DataFrame
- Visualized trends using Matplotlib
- Performed statistical analysis using Scikit-learn