Andrew Hong

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Education

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

- Double Degree, Computer Science & Physiology and Neurobiology
- Honors College: Integrated Life Sciences
- GPA: 3.94
- Banneker Key Scholar - merit-based full-ride scholarship to UMD applicants

Skills

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

Research/Technical Experience

CoStar Group

Software Engineering Intern (June 2022 – Present)

- Developed a reusable "Gallery View" component that displays properties with interactive cards
- Obtained 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)

- Publishing a customized app using Survey123 and ArcGIS that collects crop data
- Utilizing Google Cloud Run and Function to streamline ML analysis of a boundary box
- Comparing and testing 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, 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