Kai Dove

ybr8ff@virginia.edu | 571-533-7802 | Personal Website

EDUCATION

University of Virginia, School of Engineering and Applied Science Charlottesville, VA

Bachelor of Science in Computer Science August 2022 – May 2026

GPA: 3.92

Relevant Coursework: Data Structures/Algo, Computer Systems and Organization, Software Development Essentials, Discrete Mathematics, Probability, Linear Algebra, Forge Source

RELEVANT PROJECTS

ML Cancer Search September – October 2023

- Engineered a medical image segmentation API using Fast API and TensorFlow, focusing on real-time identification of cancer cells in microscopic images.
- Integrated a python client for API testing, using OpenCV and Matplotlib for visualization.
- Achieved a 10% higher diagnostic accuracy, offering a machine learning implementation.

Personal Portfolio Website, June - September 2023

- Utilizes the power and flexibility of React to facilitate a dynamic and responsive user experience, coupled with Firebase for seamless backend management, ensuring secure and efficient data handling.
- Showcases detailed project insights through an interactive portfolio section, alongside integrated social media links and a direct communication channel facilitated by EmailJS, all streamlined under Git version control.

GPT Investment Banker, July - September 2023

- Developed an AI-powered investment banker application using LangChain and OpenAI. The app performs real-time financial analysis on annual reports, generating insights like net profit.
- Integrated OpenAI API for enhanced natural language capabilities, enabling the app to handle diverse data.

Individual Mobile App Project, March - August 2023

- Accomplished the development of an individual tycoon-style mobile app by implementing a robust game engine using Unity3D and JavaScript, enabling realistic simulation of various business operations and financial systems.

Product Identification Project, March - June 2023

- Successfully completed an individual project to train a product recognition model using Convolutional Neural Networks (CNNs) with TensorFlow, achieving high accuracy and performance.
- Designed and developed a user-friendly web interface for image uploads and product identification, ensuring seamless user experience.

WORK EXPERIENCE

Mathnasium, *Tutor* Fall 2021 - Spring 2022

- Accomplished a more engaging learning environment by implementing creative problem-solving exercises which led to higher student participation and enthusiasm.
- Liaised with teachers and leaders to adapt to the COVID-19 pandemic.

LEADERSHIP, HONORS, AND EXTRACURRICULAR ACTIVITIES

Korean Student Association, *Family Member* Fall 2022 – Present

- Organized cultural events and workshops to promote Korean heritage and foster community engagement.

Hoo Hacks, *Team Member* September – May 2023

- Managed logistics and technical setups for the annual hackathon, ensuring a smooth event for over 300 participants.
- Partnered with tech companies to secure sponsorships and prizes, elevating the profile of the event.

SKILLS

Programming Languages: Python, Java, HTML/CSS, TypeScript, JavaScript, SQL, C++, Git, VSCode, IntelliJ, PyCharm, MATLAB, Firebase, React/Node.js, Slack, Computer Arc, Tensorflow.