MINJI KIM

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EDUCATION

University of Maryland, College Park *B.S. in Computer Science*   Expected Dec 2024

PROJECTS

Swaliga Webpage | *Engineer/Developer*   Feb 2024 – present
- Collaborate in a team as an engineer to architect and build web functionalities for the Swaliga foundation.
- Implement a user authentication via Google accounts leveraging Firebase and Next.js.
- Develop a function to create survey forms for admin using Google API and store the data into Firebase Database.

Object Tracker | *Developer*   Feb 2024
- Implemented a real-time object tracking system in video streams employing Canny Edge Detection and cross-correlation for precise template matching, drawing bounding boxes to improve object recognition.
- Used Python and OpenCV library for template matching and the Canny Edge Detector.

Face Detector | *Developer*   Feb 2024
- Developed a face recognition system based on eigenfaces employing Principal Component Analysis.
- Applied Python, numpy, and matplotlib to achieve a system with an optimal number of eigenfaces, attaining the best recognition accuracy of 77%.

Interview Lab | *Backend Developer*   Jun 2023 – Aug 2023
Link: https://interviewlab.site/
- Contributed to the development of Interview Lab, a web application aimed at enhancing interview preparation.
- Integrated the ChatGPT API to generate tailored interview questions based on user-provided resumes, offering personalized preparation experiences.
- Implemented robust user authentication functionalities, and secure token management using JSON Web Tokens (JWT), alongside HTTPS protocols via AWS for reinforced data security and privacy.

EXPERIENCE

University of Maryland Facilities Management | *Campus GIS Intern*   Jan 2023 – May 2023
- Contributed as an intern in the Facilities Management team, focusing on web development and spatial visualization solutions.
- built indoor pathways and routing solutions for the Seneca and Iribe Buildings utilizing ArcGIS Pro and advanced Geoprocessing tools, enhancing campus navigation.
- developed a user-friendly search widget for the Seneca Building employing ArcGIS API alongside JavaScript and HTML/CSS.

TECHNICAL SKILLS

Python, JavaScript, Java, C, Ruby, Ocaml, Rust, VHDL; Firebase, Next.js, Node.js, React, Express; MySQL; Git, AWS, Nginx; ArcGIS Pro; macOS, Windows, Linux; HTML/CSS

ACTIVITIES

Hack4Impact UMD | *Engineer*   Sep 2023 – present
- Collaborate with national and local nonprofit organizations to address their technical requirements.
- Specialize in web development, creating websites and web applications tailored to organizational needs.