ESHA MAHESHWARI

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EDUCATION

UNIVERSITY OF MICHIGAN Ann Arbor, MI
Bachelors of Engineering in Computer Science April 2024
Minors in Complex Systems and User Experience Design
Cumulative GPA: 3.6/4.0; Dean's List 2020-2024; University Honors 2020-2024; James B. Angell Scholar
Relevant Coursework: User Interface Development, Data Structures and Algorithms, Computer Organization, Artificial Intelligence, Web Systems, Needs Assessment and Usability Evaluation, Programming Languages, Computer Vision, Software for Accessibility, Computer Science Pragmatics, Building Data Driven Applications, Applied Machine Learning for Modeling Human Behavior

TECHNICAL SKILLS

Programming & Scripting: C, C++, Python, JavaScript, SQL, HTML/CSS, Shell Scripting
Programs, Frameworks, & Tools: VSCode, Microsoft SQL Server, Google Firebase, MATLAB, React, React Native, Flask, Git, WSL & Linux System Administration, Amazon Web Services (AWS), Flutter, PostgreSQL, Figma, Tailwind
Certifications: AWS Certified Cloud Practitioner, IBM Applied AI Professional Certificate, AI For Trading (in progress)
Awards: USIBA Academic All-American Qualifier (2022-2024), Ira Mitzner Scholarship Recipient

WORK EXPERIENCE

SKINMAX (Startup) Mississauga, ON (Remote)
Full-Stack Software Engineer July 2024 – Present
- Developed complete revamp for user facing web app in PHP, used Figma to create design iterations
- Used OpenAI's ML model to provide users with recommendations on skincare based on photo and text input

DISH NETWORK Denver, CO
Cloud Engineer Intern May 2023 – Aug 2023
- Reduced time taken to gather information to deploy centralized units by 75% by developing a full stack data generation and serving application using AWS services
- Improved data consistency and accuracy by implementing dynamic updates for Aurora serverless database using triggers and streams, leading to real-time data synchronization
- Ensured data security and followed cloud security best practices by taking advantage of IAM policies, security groups, and encryption mechanisms (SigV4)

KENNA Mississauga, ON (Remote)
Software Engineer Intern May 2022 – Aug 2022
- Streamlined internal data processing by 60% by developing an end-to-end automated procedure to replace original manual data processing system, leading to improved efficiency of client data management
- Developed procedure to transfer and parse data from .csv files and MSSQL to client's web application on NodeJS platform
- Ensured code integrity by writing unit and integration tests for all individually written code (1000+ lines of code)
- Used Git for version control and code management throughout the software development lifecycle in an agile environment

MOBILELIVE INC Toronto, ON (Remote)
Business Systems Analyst Intern May 2022 – Aug 2022
- Collaborated with solution architects to turn technical requirements into software architecture and API relationships for three projects by facilitating discussions with stakeholders to gather specifications
- Created high and low-level systems requirements documents, system-to-system interface documents, and testing documents to meet client requirements for a multinational Canadian bank

PROJECTS

EFFICIENT SPEECH EMOTION RECOGNITION USING GATING FUNCTIONS Apr 2024
- Developed a deep learning model with trainable binary gates to avoid unnecessary computation without impacting performance (0.3% better performance than baseline conformer)
- Demonstrated utility of recent innovations in audio machine learning such as the Conformer model and a dynamic hop-length approach

SMARTDOSE PILL DISPENSER Dec 2023
- Created a mobile app (React) and physical dispenser to aid individuals with cognitive disabilities in medication management
- Developed a 3D printed pill dispenser equipped with an Arduino microcontroller connected via HTTP requests to the mobile app (fully equipped with user authentication, notifications, all CRUD functionality)