David Kusimo

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Education

Carleton University   Ottawa, Ontario
Bachelor of Computer Science Honours, Stream: AI and Machine Learning   *2024 – 2028*

Technical Skills

Languages: Java, Python, C, JavaScript, HTML/CSS, JavaScript XML
Developer Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

Experience

Software Developer   Dec 2024 – Present
Reality AI Lab   *Remote*
- Created real time data workflows using Firestore DB and Redis achieving a 40% reduction in latency and supporting concurrent data operations for more than 6,000 users
- Collaborated on open-source projects by working alongside functional teams to maintain a clean and organized workspace, achieving a 30% increase in deployment efficiency using Python, Java, Node.js and JavaScript
- Deployed cloud-based solutions on Google Cloud Platform for seamless performances, improving application performance by 25%

STEM Tutor   Oct 2023 – Jul 2024
STEM Stars Tutoring   *Remote*
- Successfully developed and launched a tutoring organization to be a go-to resource for students seeking academic help in STEM
- Instructed STEM related courses for over 15 participants within high schools across Canada, utilizing various practices to empower their abilities and boost student acquisition by 300%
- Collaborated with a team of 6 tutors to create a positive learning environment amongst students learning to code

Projects

Just Jubilate | *Python, OpenCV, TensorFlow, MediaPipe*   Nov 2024 – Nov 2024
CU Hacking – Computer Vision   *Ottawa, ON*
- Conceptualized and developed an interactive dance-based game utilizing computer vision algorithms to promote engaging indoor workouts for a better fitness experience
- Programmed a monitoring system to track 32 key body landmarks in real time, surpassing mobile solutions using 8-12 points
- Integrated a MediaPipe Pose module to boast an accuracy rate of over 95% for body landmark detection

FloodWatch | *JavaScript, CSS, HTML, React, Vite, Node.js, Git*   Oct 2024 – Oct 2024
Nasa Space Apps   *Ottawa, ON*
- Established a program using ARCGIS to analyze the effects of flooding in Canada and the consequences over time, resulting in a 25% improvement in data accuracy and geographical insights
- Constructed a responsive website featuring 3 tabbed pages, incorporating images and a user-friendly design
- Achieved a certificate of outstanding participation and efforts to address challenges faced in Earth and in space

SafeSpace | *JavaScript, JavaScript XML, CSS, HTML, React, Vite, Spotify API, Wit.ai*   Sept 2024 – Oct 2024
Hack the Hill   *Ottawa, ON*
- Designed an innovative web application using React to assist users, taking all their favourite comfort activities to one platform
- Engineered and trained Wit.ai model with 33 diverse utterances to enhance natural language understanding and user interaction accuracy by 80%
- Integrated Spotify API into application to enable seamless music retrieval and improve user functionality

Leadership and Contributions

Carleton Planetary Robotics Team   Nov 2024 – Present
Software Team Representative   *Ottawa, ON*
- Assembled and tested LED circuits, achieving a 25% improvement in feedback clarity and enhancing lighting patterns for system indicators
- Performed debugging and optimization across diverse software systems to enhance performance and reliability
- Collaborated with Mechanical and Electrical team members to implement firmware updates and troubleshoot system-level issues