Kai Wang

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SKILLS

LANGUAGES: Python, JavaScript, Ruby, C#, SQL, Java, C++, HTML/CSS, Visual Basic, C

TECHNOLOGIES/TOOLS: React, .NET, Selenium, Node, Rails, OpenCV, AWS, Kubernetes, Docker

EXPERIENCE

MIOVISION | Software Developer
Sep 2022 - Dec 2023 | Kitchener, ON

- Developed, maintained, and deployed a full stack traffic data web application built using **Ruby on Rails**
- Utilized **SQL** and **AWS** to manage a database housing traffic data from over **50%** of the intersections in North America
- Created modern backend **REST API** endpoints and unit/integration tests using the **.NET** framework in **C#**
- Worked collaboratively with a team of 9 highly skilled senior developers, in a high intensity Agile environment

WATOLINK ENGINEERING STUDENT DESIGN TEAM | Connected Software Developer
Sep 2021 – Dec 2023 | Waterloo, ON

- Created a brain-computer interface involving action-classification via EEG signal analysis in **Python** using **PyQt**
- Enabled cross-platform, visual communication through **Selenium** web scraping and the DALL-E machine learning model
- Implemented features allowing users to interact with the Twitter platform, through the Twitter API and the tweepy library
- Placed **1st** overall at the NeuroTechX global undergraduate non-invasive neural interface student club competition

OPAL | Software Engineer
May 2022 – Sep 2022 | Menlo Park, CA

- Created a social media platform for creating, trading, and selling NFTs, using **React** and **MongoDB**
- Worked closely in a completely virtual startup environment, consisting of 9 blockchain developers from across the globe
- Implemented backend **REST API** calls using Postman and the axios npm library

U+ EDUCATION | Web Developer
Jan 2022 – Apr 2022 | Toronto, ON

- Designed, built, and maintained a fully responsive, high traffic business website using **React** and **SQL**
- Created and taught a complete coding course in **Python**, including topics such as OOP and data structures/algorithms
- Independently managed a team of 7 developers, gaining expertise in group leadership and project management

PROJECTS

TRAVEL LENS | github.com/k429wang/TravelLens

- **Hack the North 2022** project that performs live text translations, triggered using the Adhawk Mindlink eye tracking glasses
- Tracked the frequency of a user's blinks, and the exact coordinates of their eye gaze using the Adhawk API in **Python**
- Utilized the **Google Cloud Vision API** to detect and translate text using OCR computer vision technology

STUDYCAM | github.com/k429wang/StudyCam

- **DeltaHacks9** project that tracks your study efficiency through your webcam using **OpenCV** computer vision technologies
- Used **facial recognition** to detect users in a live video frame, to help track study habits and health trends in **Python**

EDUCATION

UNIVERSITY OF WATERLOO | Bachelor of Applied Sciences in Computer Engineering
Sep 2021 - Present | GPA: 3.73