Evan Dennison

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Technical Skills

Languages: Python, C/C++, JavaScript, HTML/CSS, Java
Frameworks & Libraries: React.js, React Native, Node.js, Flask, MongoDB, Twilio, JavaFX, OpenCV

Experience

Software Engineer June 2022 – Sept. 2022
Cornell University *Ithaca, NY*

- Used Microsoft Power Automate to devise an automation workflow, specifically engineered to scrape review data from various travel websites and aggregate the data into an Excel file
- Developed instructional how-to videos that provide background information for Cornell students to create their own RPA (robotic process automation) workflows in Power Automate

Lifeguard/Swim Instructor Aug. 2021 – Aug. 2023
Cedar Springs Health, Racquet, and Fitness Centre *Burlington, ON*

- Responsible for ensuring safety of swimmers by monitoring the pool, enforcing rules, responding to emergencies
- Taught swimmers of all ages and levels how to swim, giving me the ability to adapt my instructional techniques to best result in the swimmer's success

Ski Coach Dec. 2021 – Mar. 2022
Milton Heights Racing Club *Milton, ON*

- Led and coached U12 ski racing athletes
- Developed leadership skills through creating lesson plans, managing racers, & building a fun learning environment

Education

University of Waterloo
Bachelor of Software Engineering *Waterloo, Canada*

Projects

Basket Buddy | *React Native, Python, Flask, MongoDB, Raspberry Pi*

- Utilizes Raspberry Pi connected to distance and vibration sensors to accurately detect and record basketball shots
- Consists of a Flask back-end, integrated with MongoDB for efficient data management. This setup processes sensor data in real time, providing immediate feedback and statistics on shooting performance
- Incorporates a React Native mobile app with a user-friendly dashboard, offering real-time shooting stats, historical analysis, performance trends, and an interactive calendar for tracking progress
- Seamless integration between Raspberry Pi and the mobile app via RESTful APIs, enabling real-time updates and control for an intuitive user experience

DeriveFX | *Java, JavaFX*

- Application that offers graphical and algebraic representation of function derivatives based on user-provided input
- Implemented an API to efficiently calculate function derivatives, or alert the user if function is not differentiable
- Includes a user-friendly help page, settings page, and past conversions page displaying the last 10 conversions

Node-ify | *Node.js, MongoDB, Twilio, Bcrypt*

- Application designed to facilitate bulk text message transmission using Twilio
- Integrated a secure login, registration, and user management system via Bcrypt password-hashing and MongoDB

ChemCam | *Python, pytesseract, OpenCV*

- Website for converting chemical nomenclature to its chemical formula via text or image input
- Employed Tesseract in conjunction with OpenCV to effectively recognize and extract characters from image inputs
- Designed an intuitive interface with help documentation and conversion history

Awards

Governor General's Academic Medal (2023): Awarded to grade 12 student with highest average.
Computer Science Book Award (2023): Awarded to student who has shown dedication and passion to the field.
Rookie Ski Coach of the Year and Junior House League Coach of the Year Awards (2022)