MICHAEL LI

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SKILLS

Languages: JavaScript, Java, C, Racket, HTML/CSS, Bash
Technologies: React.js, Node.js, Express, Bootstrap, Firebase, Neo4j, Nginx
Developer tools: Git, Eclipse, VS Code, Ngrok, Postman, Wireshark

EXPERIENCE

NORTHERN KARATE SCHOOLS *Nov 2018 – Apr 2020*
Karate Instructor
- Conducted 30+ private evaluations per week, constructed individualized plans for improvement and negotiated timelines with parents.
- Planned and directed up to 5 classes per day of up to 40 children per class with ages ranging between 3 - 18.
- Modularized advanced techniques into multi-step drills and taught them in both adult and childrens classes.
- Mentored new junior staff members and volunteer assistants.

MUSIC COUNCIL TECH POD *Sep 2019 – Jun 2020*
Software Developer
- Performed maintenance on server by purging over 5gb of unused and deprecated assets.
- Developed applications through agile methodologies for use among the entire music department.
- Lead negotiations with York Region District School Board technicians for project approval.
- Gained access to internal school accounts and machines to host applications.

PROJECTS

Personal Site *Ongoing*
- Designed front-end components using wireframes and implemented the design using HTML and CSS with Javascript for animations and effects.
- Hosted the website on the cloud with a DigitalOcean linux server running an Nginx web server.

CTF Team   *Link to Team* *Ongoing*
- Competed in cyber security CTF competitions up to twice a week, sometimes simultaneously.
- Solved dozens of challenges using exploits such as buffer overflow attacks, SQL injection, cross site scripting, PHP reverse shells and YAML exploitation.
- Gained familiarity with debugging tools such as system traces, Wireshark and Postman.

Git Voice   *Link to Devpost* *Jan 2021*
- Developed a voice controlled git plugin for VS Code using Voiceflow's RESTful API that can be activated from any device or google assistant.
- Built in Typescript using Express.js to listen for requests from the google assistant app.
- Made use of Ngrok, an HTTP tunneling service to expose the endpoints to the cloud.

Instrument Sign-out App *Feb 2020*
- React web application used for managing inventory of 100+ school-owned instruments.
- Implemented a barcode scanning system for instruments to insure integrity and improve user experience.
- Developed using Firebase for rapid prototyping

Awards

CTFTime #8 Canadian Team 2021, #20 Canadian Team 2020
Canadian Computing Competition 2020 Senior Honour Roll

EDUCATION

UNIVERSITY OF WATERLOO *Expected Graduation 2025*
Honours Mathematics