Andrew Hong

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LinkedIn

Technical Skills

- Experienced with the following technologies:
  - C language, Node.JS and JavaScript, React, React Native, Java, SQL, Python, HTML, CSS, PHP, MongoDB, Docker, Express.JS, shell scripting
- Understanding of several Linux environments and Windows (CentOS/RHEL, Ubuntu, Debian, Windows) and have proficiency with IDEs and version control (basic SVN and Git)
- Running knowledge of Agile methodologies, Scrum

Interpersonal Skills

- Work well in teams from the frequent collaboration required in several projects in both personal projects and employment (The Varsity's magazine projects, full overhaul of main website)
- Excellent time management, demonstrated through ability to meet timelines and at times exceed them
- Quick to learn, as evidenced by ability to attain necessary skills to provide services to clients in past employment
- Ability to speak and write in French to the CEFR B1 level

Education

Candidate, Honours Bachelor of Science (Degree) 2019 - Present
University of Toronto, Scarborough Campus

- Specialist in Computer Science
- Relevant courses: Introduction to Software Engineering, Algorithm Design & Analysis, Introduction to Databases, Computer Graphics, Operating Systems
- Relevant projects: MCPv2 – an open source game server control panel, course website – course LMS and webpage, **Path Tracer** – a parallelized CPU-based ray-tracer with depth-of-field and custom bi-directional reflectance distribution function models
- Expected graduation/availability by: Fall 2023 or Winter 2024

Awards and achievements

- University of Toronto, Scarborough - Dean's list Fall 2021
- University of Toronto, Scarborough - Dean's list Fall 2020

Experience

Varsity Publications Incorporated January 2021 – April 2024
Backend Web Developer

- Performed a full rewrite with team of the main website and decoupled a once monolithic architecture that was prone to security and maintainability flaws, thereby helping to ease future maintenance and making the platform more secure with additional safeguards against security incidents with full site isolation against other hosted applications.
- Assisted in the design and co-managed the development of two web magazine projects with various custom graphical effects and delivered them on-time or ahead of schedule, while maintaining feedback and communication loop with management

Fortran Traffic Systems Limited May 2022 - August 2022
Junior Software Developer, Summer Student (Full-time)

- Developed solution to a problem in which Z1-based sensors were not being queried for previous data in case of disconnection, improving fault-tolerance and continuity
- Assisted in the validation of a connected transit signal priority system via application logging and a custom tool which parsed GTFS data and compared with a heuristic the calculated stops versus actual defined stops to further the development of project which potentially improves the safety and efficiency of transit