AMEEK SINGH

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EDUCATION

BASc, Computer Engineering | University of Toronto, St. George Campus Expected Graduation: Apr. 2024

- **Awards:** U of T International Scholarship (2019, 2020), Dean's Honor List (2021, 2022)
- **Relevant coursework:** Operating Systems, Data Structures & Algorithms, Networks, Machine Learning, Artificial Intelligence

SKILLS

Languages: TypeScript/JavaScript, C, C++, Python, Rust, HTML/CSS, ARM Assembly, Verilog
Technologies: React, React Native, REST APIs, NodeJS, CI/CD, NextJS, Terraform, Jest, Enzyme, Redux, React Query, React Testing Library, Svelte, Cypress, CloudFlare, AWS S3, Git, OpenCV, NumPy, MATLAB, TensorFlow

EXPERIENCE

HelloFresh May. 2022 – Aug. 2023
Full Stack Software Developer Co-op Toronto, ON

- Improved customer experience and conversion of 8+ apps and websites (including HelloFresh, ChefsPlate, Factor), yielding 3x more conversions using Redux, React, React Native, TypeScript, Jest, Enzyme, Bitrise and Cypress.
- Designed and developed a component library for websites in 18+ countries with > 7.3 million active customers, improving the page responsiveness by 5x and reducing the page load times by 10%, by introducing NextJS, ReactQuery & React Testing Library.
- Enhanced customer engagement during critical first impressions by providing a new pathway for A/B experimentation, which simulated Optimizely's cookie allocation on page load using cloudflare-workers.
- Devised and presented proof-of-concept to 50+ developers for monitoring and visualizing app performance using Flipper with Hermes Profiler, catalyzing enhanced mobile code efficiency.
- Championed the launch of 3 new payment methods, accelerating launch timeline by 25% and bolstering customer conversion through enhanced payment options.
- Mentored 3 new co-ops, resulting in a 50% reduction in their code contribution timeline by providing hands-on technical guidance and unwavering support.

UofT Robotics Association Sep. 2020 – Apr.2021
Computer Vision/Machine Learning Division Engineer Toronto, ON

- Improved the path-finding abilities of an autonomous rover by developing a lane detection algorithm in Python using OpenCV and NumPy.
- Progressively optimized algorithm to better differentiate between lanes by using sample image datasets to generate depth maps.

Innomasters (Engineers Without Borders) - University of Toronto Nov. 2019 – Apr. 2020
Vice President Logistics Toronto, ON

- Conducted competitive engineering design challenges and learning sessions for 50+ high school students across the GTA with a focus on solving systemic issues arising due to poverty and inequality.
- Due to COVID, overhauled the final showcase to a digital format by equipping students with virtual prototyping skills, moving in-person presentation to online video conferencing tools, and recording it for remote access.
- Took on responsibilities beyond my role to manage the team budget and allocate funds toward supplies, event organization, learning sessions, and student awards.

PROJECTS

- **Geographical Information System (C++):** GIS mapping cities from OpenStreetMap database. Loads huge cities (ex.Tokyo) in <10 seconds, and can plan routes through multiple destinations with a response <4 seconds.
- **OS161 (C):** Lightweight OS for MIPS architectures. Handles system calls and multiple user-level processes on custom stack, and implements custom synchronization primitives - semaphores, locks and condition variables.
- **Chat (C)**: TCP/IP based text conferencing. Handles concurrent moderated sessions with multiple users, private messaging, and file transfer.