CHRIS PARK

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Education

University of Toronto Sept. 2020 – Apr. 2024
Bachelor of Applied Sciences in Computer Engineering *Toronto, ON*

- Completed Second Year: **3.88 cGPA**
  Key Coursework: Programming Fundamentals, Electrical Fundamentals, Digital Systems, Engineering Design

Skills

Languages: C/C++, Python, HTML/CSS, Assembly, Verilog
Skills: React, Git, Ruby on Rails, Flask, MongoDB, MySQL, MATLAB, Pyplot, MS Power Platform

Work Experience

Backend Engineer May 2022 – Sep 2022
Google Summer of Code | OpenStreetMap *Mountain View, CA*

- Engineering the **transit routing** for Valhalla Routing Engine, removing dependencies and bottleneck on 3rd party API
- Streamlining transformation of raw GTFS transit data into **tiled hierarchical graphs in C++**
- Optimizing runtime cost by introducing caching of transit data and implementing prioritization when multi-threading
- Testing for proper transit graph creation, ensuring the layer is connected to the road graphs and the rest of the map

Founder at Shareable May 2021 – Jan 2022
UofT Entrepreneurship Hatchery | Nest 2021 *Toronto, ON*

- Founded a startup building an online learning platform for discovering high-quality hobby courses
- Designing the software product with extensive research, interviewed a dozen of experts on hobby teaching
- Iterating business plans and pitch decks to present to mentors, startup CEOs, and potential investors for viability
- **$3500 individual fellowship** awarded to further pursue the business

Research Volunteer Nov 2018 – Mar 2020
Simon Fraser University | Additive Manufacturing Laboratory *Surrey, BC*

- Research, 3D-print and test plastic tensile testing samples, and design specimen for new materials
- Prepare materials in graduate students' research of new material testing, updating professor with weekly meetings
- Application of collected data in creating an elastic prosthetic human hand reacting to electric pulses

Projects

City Mapper | GitFront

- Developed a **GTK Application** that accesses the **OpenStreetMap API** using **C++** to draw maps of cities that can search for streets and shops
- Implemented **A* algorithm** for finding the optimal path between multiple intersections with GUI integration for input through search and mouseclicks

Maverick | Junction Asia 2022

- **Winner of the Microsoft Track** of the Hackathon among finalists ($1500 USD)
- Created a Meeting Automation Webapp that streamlined employee status updates using MS Power Platform
- Analyzed Team Data like progress blockers and completed tasks to optimize workflow and avoid bottlenecks

TimeSync | UofT Hacks | DevPost

- Developed a user-matching **task organizer web application** in a team of four in **Python and Flask**
- Implemented a matchmaking algorithm that connects users that have similar activities scheduled with overlapping time intervals to encourage teamwork using an SQLite Database