CHRIS PARK

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Skills

C/C++, Python, React, Ruby on Rails, Flask, MySQL, MATLAB, HTML/CSS, Assembly, Verilog

Education

University of Toronto (Sept. 2020 – Present)
Bachelor of Applied Sciences in Computer Engineering

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

Work Experience

Backend Developer (May 2022 – Sep 2022)
Google Summer of Code | OpenStreetMap

- Implementing transit routing for Valhalla Routing Engine, removing dependency and bottleneck on third-party API
- Constructing data structures for streamlining raw GTFS transit data parsing into tiled graphs on C++
- Unit testing proper graph creation, connection between transit to other modes of travel

Founder at Shareable (May 2021 – Jan 2022)
UofT Entrepreneurship Hatchery | Nest 2021

- 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
- $3, 500 individual fellowship awarded to further pursue the business

Research Volunteer (Nov 2018 – Mar 2020)
Simon Fraser University | Additive Manufacturing Laboratory

- Weekly check-ins to view progress and prepare materials in graduate students' research of new material testing
- Research, 3D-print and test plastic tensile testing samples, and design specimen for new materials
- Data was used in creating an elastic prosthetic human hand reacting to electric pulses

Projects

City Mapper | C++, GTK

- Developed a GTK App that accesses the OpenStreetMaps library to draw a city map with 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

TimeSync | Python, Flask, Javscript, SQLite, HTML/CSS

- Developed a user-matching task organizer web application in a team of four
- Implemented a matchmaking algorithm that connects users that have similar activities scheduled with overlapping time intervals to encourage teamwork

TechAdvisor | Python, Voiceflow API, Google Cloud API

- Built an IoT application to recommend technical products based on specific user needs in a team of three
- Implemented a framework that connects Google Cloud to Voiceflow so data could be edited through voice commands