Samuel **Weninger**

SOFTWARE ENGINEER INTERN · COMPUTER ENGINEERING STUDENT

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Education

University of Toronto	*Toronto, ON*
B.S. IN COMPUTER ENGINEERING	*Sept. 2017 - May 2022*

- 3.75 GPA

Skills

Software	C++/C, Python, Javascript, SQL (PostgreSQL/MySQL) , HTML, CSS, Matlab, LaTeX
Frameworks	Node.js, React.js, PyTorch, TensorFlow
Technical	Linux, Git, Bash, GDB

Experience

Huawei Technologies Canada	*Markham, ON*
SOFTWARE ENGINEERING INTERN	*May 2020 - Present*

- Collaborated with a team of architects and engineers to develop a distributed database management system (**C++**) ready for use in 5G networks.
- Optimized storage and transactional aspects of a distributed database system, and made server-side modifications to fix and improve the efficiency of client-server database transactions (**C++, SQL**).
- Assessed and evaluated functionality of database queries and transactions; uncovered, reproduced, and repaired underlying issues in database, and provided tests for these issues (**Python, Bash**).

Holland Bloorview Kids Rehabilitation Hospital	*Toronto, ON*
COMPUTER ENGINEERING RESEARCH ASSISTANT	*May 2019 - Aug 2019, May 2018 - Aug 2018*

- Designed, tested and implemented a data acquisition/biofeedback system to measure and improve gait in lower limb amputees (**C++**).
- Implemented a program to efficiently sort and analyze data returned from a biofeedback system (**Matlab**).
- Developed algorithm to make accurate interpretations of readings from force sensing resistors (**C++**).

Projects and Publications

Work Application	*Toronto, ON*
WORK IN PROGRESS WEB/MOBILE APPLICATION FOR UNIVERSITY DATING	*Aug 2020 - Present*

- Manipulated **Node.js** components in **Javascript** to display buttons, login display and other visuals for front-end client use.
- Developed a secure password-hashing exchange between client and server for log-in/account security (**Javascript**).
- Linked Google Firebase database to application for secure storage of distributed user information.

Jane Street Electronic Trading Challenge	*Toronto, ON*
FINALIST: PLACED 2/100+ UNDERGRADUATE AND GRADUATE STUDENT PARTICIPANTS	*June 2019*

- Developed a trading algorithm to realize arbitrage opportunities in ETFs/ADRs and maximize profit in a simulated market with other teams.
- Established a TCP connection to Amazon EC2 Cloud server from a remote VM (Ubuntu Linux virtual box), developed trading algorithms (**C++**) to run on this server with other teams' algorithms.

Development and Assessment of a Wearable Biofeedback System to Improve Gait in Lower Limb Amputees	*Toronto, ON*
CO-AUTHOR (SAMUEL WENINGER, RAFAEL ESCAMILLA NUNEZ AND JAN ANDRYSEK)	*May 2019 - Sept 2019*

- Submitted (Journal Paper, co-author, expected publication date: 2020)
- UnERD 2018 (Abstract, Poster, Undergraduate Engineering Research Day)

Honors & Awards

2017-2020	**Dean's Honour List**, University of Toronto Engineering		*Toronto, ON*
2019	**Finalist**, Jane Street Electronic Trading Challenge (Hackathon)		*Toronto, ON*
2018	**Director's Summer Research Opportunity Award**, IBBME, University of Toronto		*Toronto, ON*
2018	**IBBME Presentation Award Winner**, IBBME, University of Toronto		*Toronto, ON*