Samuel **Weninger**

SOFTWARE ENGINEER

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Experience

Microsoft *Redmond, WA*
SOFTWARE ENGINEER (*WebXT/Bing*) *Sept 2022 - Aug 2024*

- Implemented language backfill logic and enhanced language extraction for **+2 Billion** Urls indexed by Bing, exposing rich content for **+100 million** businesses in **+150** different markets on Bing. (**C#**)
- Improved the coverage of *Bing Amenities* for **+6 Million** new businesses (**+55%** feature coverage improvement). Enhanced *Bing Amenities* quality by **+30%** leveraging **LLMs**, benefiting **+14M** businesses and reducing frequency of user-reported Bugs by **+80%**. (**C#, Python**)
- Engineered automated pipeline (**ADF**) for discovering new domains for *Bing*; onboarded **+500** new providers, enriching data for **+2.7B** businesses. Managed vendor team to develop models for **HTML** content extraction from new domains, integrating content into *Bing*. (**SQL**)
- Developed real-time monitoring dashboard for *Bing* rich data with routed alerts for quick, **on-call** response to data outages & bugs. (**HTML**)

Huawei Technologies Canada *Markham, ON (Remote)*
SOFTWARE ENGINEER INTERN *May 2020 - Aug 2021*

- Collaborated with a team of architects & engineers to develop (**C/C++**) the infrastructure for a distributed database leveraged in **5G networks**.
- Optimized storage processing logic & improved transactional procedures in a distributed database system (**C++, SQL**).

Skills

Software	Python, C#, C++/C, SQL, Javascript, HTML, CSS
Frameworks	.NET, Node.js, React.js, React Native, PyTorch, TensorFlow, Flask
Technical	Linux, Git, Bash, GDB, Docker, AWS, ADF

Projects & Publications

***Pebbles* Application** ⬈ *Toronto, ON*
UNIVERSITY DESIGN TEAM RECOMMENDATIONS APPLICATION (UDIT DESAI, KRISHNA SOLANKI, NISH PATEL) *Jun 2021 - Sept 2022*

- Created recommendations application to cluster students & professors into engineering design teams based on internal & external signals/interests.
- Full stack application with database (**AWS DynamoDB**), backend API (**Python** + **AWS**) & frontend application (**TypeScript**).

Course Finder Application *Toronto, ON*
WEB/MOBILE APPLICATION FOR UNIVERSITY COURSE PLANNING (ADEL ASWAD, ALEX SENN, JAY BIHOLA, YOUSSEF CHMAIT) *Sept 2021 - May 2022*

- Created full stack application designed for course registration & selection at University of Toronto, with user profile & authentication.
- Integrated database (**PostgreSQL**), backend API (**Python Flask** + **SQLAlchemy** ORMs) & frontend application (**React.js**).

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

- Developed (**C++**) & deployed (**EC2**) trading algorithm to realize arbitrage opportunities in ETFs/ADRs & maximize profit in a simulated market.

Education

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

- 3.72 GPA

Honors & Awards

2017-2021	**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*