

Samuel Weninger

SOFTWARE ENGINEER

USA

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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