Yunkai **Wang**

Software Developer

Ottawa, ON

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Education

Carleton University — *Ottawa, ON*

M.C.S. Computer Science — *Jan. 2020 - Current*

- Research in Computational Geometry. GPA: 11.4/12. Expected June 2021.
- **Select courses:** Statistical and Syntactic Pattern Recognition, AI-enabled Software Verification and Testing, Algorithms for Data Science.

B.C.S. Computer Science — *Sep. 2014 - Jun. 2019*

- Algorithms Stream with Minor in Mathematics. GPA: 11.67/12.
- **Select courses:** Object-Oriented Software Engineering, Abstract Data Types and Algorithms, Operating Systems, Artificial Intelligence, Neural Networks, Database Management Systems, Real-Time Concurrent Systems, Design and Analysis of Algorithms, Linear Algebra, Calculus.

Skills

Languages	Python, Java, C, C++ JavaScript (Node.js), SQL
Platforms	AWS, Linux (Ubuntu), Windows, Mac
Technologies	Git, Scikit-learn, Tensorflow, React Native, EC2 instance

Experience

Blindside Network Inc. — *Ottawa, ON*

Open Source Integration Developer — *May. 2018 - Aug. 2018*

- Site reliability in Cloud Machine Learning.

Espial Group Inc. — *Ottawa, ON*

Java Developer — *Sep. 2016 - Dec. 2016*

- Developed a job to alert for suspicious changes to weekly database releases.

Additional experience as **Teaching Assistant** at Carleton University.

Projects

Elizabeth: Scalable malware detection — *UGA*

`github.com/dsp-uga/elizabeth` — *2018*

- A Spark based approach to the Microsoft Malware Classification Challenge.
- Developed in a team of three over two weeks as a project in UGA's Data Science Practicum.

Rw-Prolog: An equational logic programming language — *UGA*

`github.com/cbarrick/Rw-Prolog` — *2015*

- Extends Prolog's unification semantics with support for conditional term-rewriting.
- Implemented as a meta-interpreter in Prolog.

Plum: A logical agent for the board game *Clue* — *UGA*

`github.com/cbarrick/plum` — *2014*

- Communicates with a human operator in natural language (English).
- Models knowledge as a constraint satisfaction problem.

Publications

2021 **Simple Linear Time Algorithms For Piercing Pairwise Intersecting Disks**, A. Biniaz, P. Bose, Y. Wang. *WADS*

2019 **A Proposed Method for Designing Diagnostic Mathematics Tests**, K. Cheung, B. Stevens, Y. Wang. *eJMT*