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, Eclipse, Visual Studio Code

Experience

Open Source Integration Developer — *Ottawa, ON*

Blindside Network Inc. — *May. 2018 - Aug. 2018*

- Installed and integrated BigBlueButton with Zimbra and OpenEdx to manage entire activities at one spot and improve online learning process.

Java Developer — *Ottawa, ON*

Espial Group Inc. — *Sep. 2016 - Dec. 2016*

- Collaborated in an Agile team; maintained and upgraded containerized applications; executed automated tests for app efficiency enhancement.

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

Projects

Smart Snake — *Carleton U.*

`github.com/yunkaiwang/SmartSnake` — *2018*

- Established an AI technique to play simple board games and analyzed the limitation of the technique.
- Evolving neural network with genetic algorithm with randomly initialized parameters to serve as the initial population.

TFTP File Transfer System — *Carleton U.*

`github.com/yunkaiwang/TFTPFileTransferSystem` — *2018*

- A fully-functional file transfer system implemented based on the TFTP specification; implemented using Java.

Retrieve — *Carleton U.*

`github.com/Jasonjys/retrieve` — *2017*

- A lost-and-found mobile app developed using React Native and deployed in the iOS system.
- Created and applied chat functionality; implemented EC2 server for managing search and chat requests.

JESB, Jira to ElasticSearch Bridge — *Espial*

- Enabled automatic generation of team statistics and store these data in Elastic Search; implemented using Node.js.

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*