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| **Nguyen (Rachel) Ton** |
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**EDUCATION**

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| * **Ph.D. in Physics,** University of Virginia, Charlottesville, VA | Aug. 2012 – Dec. 2019 |
| * **B.S in Physics**, Hue University’s College of Education, Hue, Vietnam | Aug. 2007 – July 2011 |

**SKILLS**

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| * Languages | **C++** (6+ years), **Python** (2+ years), **C#**. |
| * Web development | HTML, CSS, JavaScript, Node.js, Express, WPF, WCF, MVVM. |
| * Libraries, Frameworks | Tensorflow, Keras, Scikit-Learn, ROOT (data analysis framework based on C++), Mathematica, Shell script, SQL, .NET. |

**EXPERIENCE**

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| * **Software Engineer at J.P. Morgan (**Chicago, IL**)** | June 2020 – Present |
| * Developed, enhanced, and maintained functionality for ABSolute application (Asset-Backed Commercial Paper or Conduit) which tracks and manages deals from proposal through funding and until termination. * Weekly meetings with internal business partners to identify requirements, determine priority, analyze/design code, implement code with acceptance/unit testing, deploy and maintain production environment. | |
| * **Data Scientist Intern at Inpher (**New York, NY**)** | May 2019 – Aug. 2019 |
| * Performed privacy preserving machine learning over sensitive data by utilizing Differential Privacy approach to preserved data. Studied various techniques to achieve privacy during training process with Tensorflow and IBM open sources. * Analyzed Differential Privacy performance with other cryptographic techniques: Fully-homomorphic Encryption and Secure Multi-Party Computation. * Research results are being actively utilized by Business Development team to educate customers. * Github: <https://github.com/nguyenton68/differential_privacy> | |
| * **Research Assistant at University of Virginia (**Charlottesville, VA) | June 2013 – Dec. 2019 |
| * Created a particle tracking model using C++ to solve a detector problem, existed since 2003, which saved 3 TB useful experimental data. * Electron track from Jefferson Lab experimental data were optimized with a limited set of calibration data. * Received the comment from research committee “*Great effort to make an impossible analysis working*”. | |

**AWARDS**

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| * Department Fellowship | 2015, 2017, 2018 |
| * Jefferson Lab/JSA Graduate Fellowship (awarded to top 8 students from 60+ universities) | 2016, 2017, 2018 |

**COMPUTATIONAL COURSEWORK**

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| * Fundamental of Scientific Computing, Computational Physics | University of Virginia |
| * Data Structure and Algorithm, The Web Developer Bootcamp | Online |