Nathan Riley LaPierre

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Education

B.S. in Applied Computer Science, concentration in Software Engineering

GPA – 3.91

George Mason University, Fairfax, VA

Expected Graduation December 2015

Honors College Member; Dean's List placement for every semester

Thomas Jefferson High School for Science and Technology, Class of 2012

Alexandria, VA | Advanced Studies Diploma

Work and Research Experience

Research: Predicting Clinical Phenotype Using OTU-based Metagenome Representation

George Mason University, February 2015 – Present

- Received Outstanding Undergraduate Research Project Award
- Created a system that uses machine learning techniques (classification using Support Vector Machines and Clustering/Annotating using UCLUST/Kraken) to predict whether a patient has liver cirrhosis based on metagenomic sequence reads from that patient

Security Development Intern

Sony Corporation of America, Herndon, VA, June 2013 – Present

- Wrote secure and scalable software scripts and worked with Big Data in order to help analyze, detect, and prevent attacks on Sony's networks
- Used Python, XML, Javascript (node.js, express.js), MongoDB, CSS, and HTML

Undergraduate Teaching Assistant, CS 306 – Computer Law and Ethics

George Mason University, Fall 2014 and Spring 2015 Semesters

- Received Outstanding Undergraduate Teaching Assistant Award
- Assisted students with legal research, writing, and oral communication; grading responsibilities

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Skills and Relevant Knowledge

- Languages: Python, Java, C, HTML, CSS, JS; some experience with: PHP, SQL, Ruby, XML
- Libraries/frameworks: node.js, MongoDB, express.js, meteor.js, jQuery, Bootstrap, Flask, Django
- Fields: Machine Learning, Bioinformatics, Software and Web Development
- Experience with Git version control via both GitHub and command line
- Experienced with both Windows and Linux operating systems; some Mac experience

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Selected Awards and Honors

- Top 5 (out of 45+) at VTHacks, an event where undergraduates created new software in 36 hours
- Received $5000 Bersoff Endowed Scholarship for outstanding academic achievements
- Executive Board Member & Developer in GMU's Student-Run Computing & Technology (SRCT)
- Member of the Golden Key and Alpha Lambda Delta Honor Societies