Weston Jackson

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EDUCATION

Columbia University   New York, NY
B.A. in Computer Science, GPA: 3.99/4.00   May 2017
M.S. in Computer Science, GPA: 4.00/4.00   Expected October 2019

Aquincum Institute of Technology   Budapest, Hungary
Study Abroad Program, GPA: 4.00/4.00   Fall 2016

Awards and Honors:
Graduated *summa cum laude*   May 2017
Awarded Computer Science Department cash prize for academic excellence   April 2017
Junior Phi Beta Kappa inductee   December 2016

TECHNICAL SKILLS

Languages:	Python, Java, C, C++, Go, PHP, Scala, Javascript, HTML/CSS
Development Tools:	Vim, Intellij, Sublime, Eclipse, Jupyter Notebook, PyCharm, Xcode
Data Technologies:	Vertica, MySQL, Kafka, Hadoop, Docker, Kubernetes

PROFESSIONAL EXPERIENCE

AppNexus   New York, NY
Data Science Engineer   July 2017 – Present
• Optimizes budgeting, allocation, and valuation mechanisms for users of AppNexus's demand-side platform.
• Develops and scales Python and Java applications to handle millions of dollars of daily ad spend.
• Improves and maintains the real-time programmatic advertising infrastructure written in C.

Department of Computer Science, Columbia University   New York, NY
Teaching Assistant   January 2017 – May 2017
• TA for Analysis of Algorithms I, an introduction to the design and analysis of efficient algorithms.
• Held office hours, helped students with homework via Piazza, graded assignments, and proctored exams.

AppNexus   New York, NY
Software Engineering Intern   May 2016 – August 2016
• Created a standalone Scala application that automated a time-consuming data recovery process.
• Improved the data platform's job scheduler by writing the API calls for ad hoc job processing.
• Integrated the application into the data platform's Python-Flask web framework using said ad hoc functionality.

RESEARCH EXPERIENCE

Center for Computational Learning Systems, Columbia University   New York, NY
Research Assistant   January 2017 – May 2017
• Implemented machine learning algorithms to predict nuisance alarms in hospitals from physiological data.

Department of Computer Science, Columbia University   New York, NY
Research Assistant   August 2016 – December 2016
• Worked under Professor Itsik Pe'er on machine learning research pertaining to the Human Microbiome Project.
• Modified and implemented clustering algorithms to characterize a distribution of bacterial samples.
• Paper presentation at KDD 2017 and published in the Journal of Healthcare Engineering, vol. 2017.

PUBLICATIONS

• Weston J. Jackson, Ipsita Agarwal, and Itsik Pe'er. "2-Way k-Means as a Model for Microbiome Samples." *Journal of Healthcare Engineering*, vol. 2017, Article ID 5284145, 7 pages, 2017. doi:10.1155/2017/5284145.

INTERESTS

• Basketball, Music, History