

Project Manager & Python Back-end Developer Project Manager & Python Back-end Developer
Project Manager & Python Back-end Developer St. Louis, MO Washington University in St. Louis -
Candidate for Bachelor of Science Expected Graduation: May 2019 Majors: Computer Science &
Mathematics Major GPA: 3.75/4.00 Dean's List (Spring 2016, Spring 2017, Fall 2017, Spring 2018,
Fall 2018) Relevant Classes: Algorithms for Non-linear Optimization, Bayesian Methods in Machine
Learning, Cloud Computing with Big Data, Data Mining, Financial Accounting, Financial
Mathematics, Linear Statistical Modeling, Machine Learning, Object-Oriented Programming,
Operations Research, Probability Theory, Statistics, Stochastic Processes Work Experience Project
Manager & Python Back-end Developer VandyHacks V - Nashville, TN November 2018 to
November 2018 Winner, Best financial hack - Personal Assistant for CapitalOne: Online banking
chat bot with an intuitive interface Managed project timeline by setting clear procedures for the
development process Designed features by identifying potential use cases and designed the
appropriate architecture to enable such features o Features include, checking current balance and
transferring money o Architecture: Flask web server communicating with JavaScript front-end and
sending user inputs to a Task Manager that identified the accurate task to perform Designed
efficient algorithms to enable the logic of how the features are enabled Machine Learning Intern
Nasdaq Inc - Boston, MA June 2018 to August 2018 Team of 10 interns (4 machine learning, 4
full-stack, and 2 project management) developing a B2B software prototype Held meetings with
potential clients to gain insights on how the prototype may improve clients' business models Built
data scraping programs using Python packages such as Selenium and Scrapy to find training data
Developed tools such as an asset exchange simulator using Markov Chain Monte Carlo method
(patent-pending); a hybrid recommendation system using clustering, collaborative filtering, and
content-based filtering algorithms; and an asset valuation tool using Bayesian prior/posterior
modeling Integrated machine learning tools with the core API built by the full-stack interns using
Python packages such as Flask and PyMongo and using Queue implementation of multi-threading
Applied Operations Research Project - Development Lead U.S. Department of Defense - St. Louis,
MO January 2018 to May 2018 Consulting project for the U.S. Department of Defense in a team of 6

students Oversaw the design process for building an automated program that determines which U.S. mainland roads are the most essential to the Department of Defense and the U.S. military

Built a Python solution that scrubs input data to represent roads as data points with PySpark, clusters roads by importance with Scikit Learn, and finds the most essential roads by solving an optimization problem with Google ORTools Regularly communicated with clients to discuss the progress of the project such that the team can pivot directions if needed

Developer Automatic Financial Model Builder May 2017 to December 2017 Implemented an object-oriented program to extract and organize online financial data from the SEC website with Python packages such as BeautifulSoup, Pandas, and Selenium and with SQL

Co-Founder Breads Co - St. Louis, MO November 2015 to May 2016 On-campus peanut butter & jelly sandwich delivery business operated by a team of 3 students Identified market demand, about 63,000 sandwiches a year within the lowerclassmen residential; and sales strategy, to target nights before exams and weekends, with data from survey sent to the student population Expanded revenue per delivery from \$40 to \$200, which remained at such level

Education Bachelor's Skills SQL (Less than 1 year), Python (2 years), Java (2 years), C++ (2 years), R (2 years), Apache Spark (1 year) Links <https://github.com/Keon6> <https://linkedin.com/in/keon-shik-kevin-kim-a618b78b/>

Name: Johnathan Knox

Email: rsims@example.com

Phone: 001-510-793-0273x09479