

JOHN KNOLLMAYER

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SKILLS

Languages: C++, Python, JavaScript, MATLAB, Bash, Java, SQL, C#

Tools & Frameworks: Visual Studio, Git, Express, Scikit-learn, AWS, NumPy, CppUnit, NLTK

EXPERIENCE

May 2016 – Aug. 2016 **Software Engineering Intern**, *The MathWorks*

- Developed for the MATLAB Connector using C++11 and MATLAB m-code
- Implemented semantic versioning for server-client communication
- Updated error message system to allow for programmatic error messages
- Diagnosed and fixed an issue with support for a new string datatype

May 2015 – Apr. 2016 **Research Assistant**, *Boston University Performance & Energy Aware Computing Lab*

- Developed Python codebase for predicting application installations on virtual machines
- Reduced model testing time 90% by developing a caching system for models
- Designed & implemented an algorithm to trim incomplete data chunks from training datasets

PROJECTS

Apr. 2016 **Candidate Sentiment Analysis** [Python, NLTK, d3.js]

- Performed sentiment analysis on the debate transcripts of the U.S. presidential candidates, then created a d3.js visualization to compare the positivity of their tones

Jan. 2016 **Faker** [Python, Flask, Twitter API]

- Webapp which generates "imitation" tweets for any submitted Twitter account by traversing Markov Chains built from the account's tweets

Apr. 2015 **Whiteboard++** [Bash, Express, Java, OCRopy]

- Android app that converts pictures of whiteboard writing to text and compiles it as C++

EDUCATION

Sep. 2014 – May 2017 (expected) **B.S. Computer Engineering**, Concentration in Tech Innovation, *Boston University*

3.4 GPA, *Relevant Coursework:* Cloud Computing, Applied Algorithms, Operating Systems, Engineering Computation, Computer Architecture, Software Engineering, Cybersecurity

ACTIVITIES

Sep. 2015 - Present **Student Partner**, *Microsoft Student Partners*

- Host workshops on topics such as Azure Machine Learning, Arduino, and careers in tech
- Connect with students via social media to share technology news and local events

Mar. 2015 - Present **Assistant Director**, *BostonHacks*

- Manage venue booking and facility support staff for 400+ attendee hackathon
- Complete withdrawal requests and manage deposits for \$70,000 budget