

William Wagner

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EDUCATION

Florida State University

Bachelor of Science in Computer Science

- **GPA:** 3.88 / 4.0

Tallahassee, Florida

Expected May 2018

WORK EXPERIENCE

Computer Architecture and Systems Lab

Undergraduate Research Assistant

Tallahassee, Florida

September 2016 - Present

- Built machine learning models capable of monitoring and predicting global disease trends based off internet traffic logs and official CDC disease reports
 - Forecasted US influenza levels up to two weeks in advance of the CDC, with a maximum average difference of 0.3%
- Utilized Apache Spark to aggregate and explore various big data sets to test their feasibility in detecting epidemiological trends

Bloomberg L.P.

Software Engineer Intern, Trading & Analytics

New York, New York

May 2017 – July 2017

- Developed a Bloomberg Terminal Function and an API back-end that replaced existing product installation toolchains for clients
 - Removed dependency on engineering department for new client installations
 - Achieved 85% decrease in new client install times
- Created a Bloomberg Terminal function that demos a new reporting hub, which provides prospective firms with transaction histories and regulatory audit trails
 - Necessary for new wave of regulations (MiFID II) affecting the EU in 2018

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, C++, SQL

Technologies: HTML/CSS, React, MySQL, Apache Spark, Git, Linux, Flask, AWS, Node, Scikit-Learn

PROJECTS & OPEN SOURCE CONTRIBUTIONS

Vestview

GitHub: [wcwagner/vestview](#)

- Developed a Flask web application that facilitates access to real-time and historical stock market prices, custom news summaries, and graphs
- Implemented a back-end with Python which aggregates and inserts daily stock market prices and news from various APIs into a MySQL database

Crudechain

GitHub: [wcwagner/crudechain](#)

- Created an implementation of a block chain, which continuously maintains a growing list of transactions in a distributed data store
- Utilized a HTTP interface to control block nodes and web sockets to allow for communication between nodes, emulating a peer-to-peer network

Pandas (large Python data analysis library)

GitHub: [pandas-dev/pandas](#)

- Wrote various bug fixes, along with unit tests to ensure correctness and compatibility in the library
- Added documentation to further explain Panda's handling of mixed data types