

# 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

- Leveraged Python and Scikit-learn to create 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 large 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 UI and service that overhauled existing product installation toolchains for clients
  - Removed dependency on engineering department for new client installations
  - Achieved 85% decrease in new client install times
- Added a universally available demo mode to an application that provides prospective clients with regularly updated transactional data and their corresponding 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

## PROJECTS & OPEN SOURCE CONTRIBUTIONS

### 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

### Vestview

**GitHub:** [wcwagner/vestview](#)

- Developed a web application that facilitates access to real-time and historical stock market prices, custom news summaries, and graphs
- Implemented 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 a simple 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