

Patrick R. Jones

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patrickrjonescode

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## Programming languages

**Proficient in:** Java, Python,  
C, Flask, Git

**Familiar With:** C++, C#,  
SQL(Oracle, Mysql, sqlite  
with peewee), Nodejs,  
Mongodb, Bootstrap,  
Docker, HTML, CSS

## Education

**Fall 2015 - present,**  
**University at Buffalo**

-Current GPA 3.2

**Fall 2014 - Spring 2015,**  
**SUNY Polytechnic Institute**

-Presidential Scholar Award,  
Fall, 2014 GPA 3.8

-Deans List, Spring, 2015-  
GPA 3.5

# Patrick Jones

## Senior Computer Science Student

### Internships

#### The MITRE Corporation, Mclean, VA

Software Development Intern, May-August 2017

- Worked on the Aviation Safety Information Analysis and Sharing (ASIAS), a program that utilizes different machine learning models and data visualization to improve aviation safety. Sponsored by the FAA.
- Personally designed and implemented a system wide process monitoring system from scratch. Initially given the problem, I wrote a list of requirements that needed to be met by the new system and designed and implemented the system from these.
- Created a RESTful web service in flask to monitor all system processes and tasks with minimal invasion to existing code and binaries
- Individual processes report their progress and if a problem occurs, the web service will notify developers of problems. A web app provides diagnostic information such as hardware performance data and process log files in one location.

#### Wegmans Food Markets, Rochester, NY

Software Development Intern, May-August 2016

- Worked with a non-technical customer to create an ASP.NET MVC webapp based on their needs and specifications. Functionality included querying and displaying information from an SQL database and actionable items that updated SQL tables and dropped NServiceBus messages
- Worked on sprint tasks using C# and Oracle SQL
- Participated in an on-call rotation where I diagnosed and corrected software issues in production

### Other

#### Volunteer Elementary coding instructor

- Taught beginner JavaScript programming to 3rd grade students

#### ScheduleMe App

- Worked with five other students to create an android smartphone app to allow groups of users to schedule meeting times based on their Google calendar information
- Primarily worked on the apps backend with NodeJS and Mongodb

#### Undergraduate Teaching Assistant

- Assisted with instruction and led recitations for computer science first year seminar at the University at Buffalo