# Matthew R. Petracca

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**EDUCATION**

**Bachelors of Science, Computer Science,** expected graduation May 2017
Virginia Tech, Blacksburg VA

**Cumulative G.P.A. – 3.07     In-Major G.P.A. – 3.12**

**SKILLS**

Proficient – Java          Familiar with – Python, JavaScript, C/C++

**REALVENT COURSEWORK**

| | |
|---|---|
| Data Structures and Algorithms | Computer Systems and Networking |
| Computational Data Analytics | Principles of Computer Security |
| Intro to Artificial Intelligence | Applied Combinatorics and Graph Theory |

**JOB EXPERIENCE**

**Software Development Engineering Intern**, Amazon, Seattle WA, Summer 2016
- Implemented a RESTful API for vendors in production to submit new content to be ingested into the Amazon catalog, reducing the time spent by vendors by automating a previously manual process.
- Developed practical engineering skills by working with modern software tools.
- Analyzed practical RESTful solutions to work with existing ingestion systems.
- Gained Java web development experience by routing paths with JAX-RS, marshaling data with Jackson, simplifying dependency injection with Spring, and unit testing code with JUnit and Mockito.

**C-130J Software Engineering Intern**, Lockheed Martin, Marietta GA, Summer 2015
- Built ASPX Web and C# applications in the .NET framework that improved efficiency in wiring processing operations for the C-130J military transport carrier.

**HONORS & AWARDS**

**Capital One Software Engineering Summit Contest Winner**, McLean VA, May 2015
- Chosen to attend as one of Capital One's 30 programming challenge winners.
- Developed a Python script using Pandas, an open-source data analytics library, to analyze hundreds of thousands of tweets from the 2015 Oscars to predict award winners.

**PROJECTS**

**Twitter Application Project** (Spring 2016, JavaScript for Java Programmers)
- Developed a Twitter web application using the Express framework on top of NodeJS.

**Geographic Information Systems Project** (Fall 2015, Data Structures and Algorithms)
- Created a text parser to process large files of geographic landmarks.
- Developed a Point-Region Quad-Tree to efficiently organize the coordinate based data, along with a Buffer Pool to quickly retrieve recently queried data.

**ACTIVITIES**

**Virginia Tech ACM-ICPC Programming Team,** Virginia Tech, Fall 2015 – Spring 2016
- Developed problem-solving skills through weekly meetings and practice programming contests.

**Teaching Assistant, Intro to Programming**, Virginia Tech, Fall 2015 – Spring 2016
- Improved interpersonal communication skills by explaining technical programming concepts to non-technical students.
- Helped students learn the fundamentals of object-oriented programming by holding weekly office hours and conducting weekly programming labs.

* -- Most of my repositories are private as they contain school projects, but read access can be granted upon request.