**Garrett Beatty**

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**EXPERIENCE**

**Comcast – Philadelphia, PA**

*Software Engineer* *June 2019 – Present*

* Developing microservices that support over 31,000 technicians in the field using Spring Boot, MongoDB, and Kafka.
* Led multiple engineers and coordinated the development for a telematics project that allows technician supervisors to receive alerts about technician habits.
* Reduced deployment configuration time by 98% by migrating CI/CD from GoCD to Concourse.
* Automated the process of creating new microservices, creating load balancers, and updating property configurations.
* Rearchitected the logging pipeline to dramatically reduce data loss and improve Kibana indexing.

**Lockheed Martin – Moorestown, NJ**

*Software Engineering Intern**June 2018 – August 2018*

* Worked on an Agile team to support the development of the Aegis Combat System using Java and C++.
* Automated parts of the build process using Jenkins, Python, and Bash.

**The College of New Jersey – Ewing, NJ**

*Machine Learning Student Researcher January 2017 – December 2017*

* Designed a machine learning and natural language processing infrastructure with a team of 5 students and faculty in Python using machine learning and statistical analysis libraries such as scikit-learn, numpy, pandas, and matplotlib.
* Improved the speed of the infrastructure by 95% by adding support for parallel processing on the HPC.

**Comcast – Philadelphia, PA**

*Software Engineering Intern June 2016 – August 2016*

* Increased the efficiency of the Quality Assurance team by creating a Node.js application that automatically generates unit testing reports, which can be filtered by date, device type, operating system, etc.

**EDUCATION**

**The College of New Jersey – Ewing, NJ**

*Bachelor of Science, Computer Science*  *August 2015 – May 2019*

Advanced Courses: Natural Language Processing, High Performance Computing, Cryptography

Co-Founder/President: TCNJ Table Tennis Club

**SKILLS**

**Proficient**: Python, Java

**Libraries/Frameworks:** Spring Boot, Django, Flask, Scikit-Learn, Numpy, Tensorflow, Pandas, Matplotlib, Keras, OpenCV

**Tools:** Git, MongoDB, Cloud Foundry, ElasticSearch, Logstash, Kibana, Docker, Kafka, Vault, Concourse

**PERSONAL PROJECTS**

**Android Application – “arXiv Explorer”**

Published an Android application with over 11,000 downloads that allows users to browse, search, and download scientific papers from arxiv.org.

**PUBLICATIONS**

**“The Use of Unlabeled Data versus Labeled Data for Stopping Active Learning for Text Classification”,** *Proceedings of the 2019 IEEE 13th International Conference on Semantic Computing (ICSC), Newport Beach, CA, 2019.*

**“Impact of Batch Size on Stopping Active Learning for Text Classification”,** *Proceedings of the 2018 IEEE 12th International Conference on Semantic Computing (ICSC), Laguna Hills, CA, 2018.*