William Cromar

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Skills and Technologies

Languages: Python, Java, Kotlin, Go, C, C++, SQL, Bash, HTML/CSS, LaTeX
Tools: Jupyter, Docker, Kubernetes, Git, SVN, Gradle, Bazel
Libraries: TensorFlow, Scikit-Learn, NumPy, Flask, Dagger, Mockito

Education

University of Central Florida *Fall 2015 - Spring 2019 (expected)*
Bachelor of Science, Computer Science *Current GPA: 3.9*
Minor in Statistics

Experience

Google — Software Engineer Intern, Tools and Infrastructure *Summer 2018*

- Migrate test result dashboard tool *Testgrid*, written in **Go**, from **Google App Engine** Standard to **Kubernetes**-based serverless application framework *Knative* and deploy in a new, more scalable production environment, increasing dashboard response time by up to 60%.
- Document migration process and provide actionable feedback to relevant teams on how to improve developer experience and productivity with *Knative*-based Cloud products.

Google — Software Engineer Intern *Summer 2017*

- Designed, trained, and documented machine learning model with **TensorFlow** to make useful inferences over Android Pay transaction data, increasing coverage over existing model by a margin of 20% while maintaining the same accuracy.
- Implemented serving infrastructure for model in **Java** and **TensorFlow Serving**. Launched model in production to support serving inferences to new transactions in real time.

UCF — Member, JV Programming Team *September 2016 - May 2017*

- Attended weekly practices and regional competitions to improve problem solving skills and programming ability. Collaborated with team to implement efficient software solutions in **Java** and **Python** within a short time-frame. Tested solutions to ensure correctness.

DiSTI — Software Engineer Intern *October 2015 - September 2016*

- Developed and maintained leading-edge virtual environment software written in **C++**. Created and improved automated tests using in-house tools, as well as custom **Python** scripts.

Projects

`github.com/will-cromar`

Dog Breed Identifier: Developed, trained, and deployed machine learning model with **TensorFlow** and **TF Serving**, capable of identifying the breed of a dog in a photo. Created public web frontend written in **Go** to allow users to classify their own photos. Published source code and documentation to provide the community with a complete example of a TensorFlow project, from data prep to serving.

Movie and Show Tracker: Developed Android application written in **Kotlin** with **Dagger**, allowing users to browse and subscribe to upcoming movies and TV shows. Designed and implemented RESTful backend written in **Python** with **Flask**, **PostgreSQL**, and **Redis**. Deployed *affinity propagation* content recommender model using **Scikit-Learn** to help users find new content.