William Cromar

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Skills and Technologies

Languages: Python, Java, Kotlin, Go, C, C++, SQL, Bash, HTML/CSS, LaTeX
Development Tools: Jupyter, Docker, Kubernetes, Git, Gradle, Bazel
Libraries: TensorFlow, Scikit-Learn, Numpy, Seaborn

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** to **Kubernetes**-based serverless application framework *Knative*.
- Document migration process and provide actionable feedback to relevant teams on how to improve developer experience and productivity with *Knative*.

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++**. Tested software solutions and reviewed code written by team members to ensure consistent software quality. Created and improved automated tests using in-house tools, as well as custom **Python** scripts.

Projects

`github.com/will-cromar`

Movie and Show Tracker: Developed Android application written in **Kotlin** allowing users to browse and subscribe to upcoming movies and TV shows they're interested in. Designed and implemented REST-ful backend written in **Python** with **Flask**, **PostgreSQL**, and **Redis**. Trained and deployed recommender model using *Affinity Propagation*, as implemented by **Scikit-Learn**.

Sentiment Classifier: Developed a natural language sentiment classifier in **Python** using **sklearn**, capable of identifying positive or negative tone in financial news articles. Incorporated sentiment classifier into larger group project providing stock market news analysis, price prediction, and report generation.