ALEXANDER CLINES

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SKILLS USED IN CURRENT ROLE*

PROGRAMMING LANGUAGES

- ‣ C/C++
- ‣ Python
- ‣ Objective C/C++
- ‣ Swift
- ‣ Java
- ‣ Bash/Shell

TECHNOLOGIES

- ‣ NumPy/Pandas/Notebooks
- ‣ Protocol Buffers
- ‣ PostgresSQL
  - ‣ Including administration
- ‣ Tableau
- ‣ Various AWS solutions
- ‣ Docker

*Technical Skills utilized in previous experiences as well as experience, projects and other research from before 2015 available upon request.

EXPERIENCE

Senior Software Engineer, Apple; Cupertino, CA — Aug. 2020 - Present
Member of the Siri NL Platform team that brought natural language processing to on device starting in iOS 15. I lead the performance effort for NL processing on device.

Software Engineer, Google; Mountain View, CA — July 2017 - Aug. 2020
SWE on an NLP team under Google AI Language focused on applying new NLP technologies towards various solutions for Google.

- Implementation of latest unsupervised clustering methods that were scalable for large datasets and distributed computing. Presented this work at an internal Google Research conference.

- Uncovered new applications of LSTM networks for Google Ads.

- Optimized large BERT models for production use (latency and memory usage mostly) using techniques including distillation.

- Designed/implemented or otherwise contributed to multiple core frameworks used internally for operating on NLP data including Sentiment Analysis models publicly accessible in Google Cloud.

- Acknowledged in the paper "A Challenge Set and Methods for Noun-Verb Ambiguity" which was published & presented at EMNLP in 2018 for my contributions to the dataset.

Software Engineer Intern, USAA; Plano, TX — Summers of 2015 & 2016
Two internships working on different products each summer.

- Contributed to the development of native mobile apps with Swift for iOS and Java for Android in addition to cross-platform technologies (Polymer) to allow users of all devices the opportunity to access a service provided by USAA.

- Worked on backend infrastructure for a mobile application, implementing a RESTful API using MySQL and J2EE technologies.

EDUCATION

Texas Tech University, Lubbock, TX
 — Computer Science B.S. & Mathematics B.S. May 2017