Alex Wen

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SKILLS

Languages C++, Python, Java, Javascript (ES6), C

Technologies Cassandra, Numpy, SciPy, Node.js, React.js, Azure, Bluemix, Bash, Git, Vim

EMPLOYMENT

Instagram

Software Engineering

Jan. '18 – Apr. '18

- Authored a **Python** script to clean up dead archived data
- Added support for RocksDB as the storage engine for Cassandra secondary index
- Implemented a Cassandra secondary index using Java and created a Python API to expose the feature
- 99th percentile database read latencies were reduced by **72%**, and average read latencies by **46%**

Google

Software Engineering

May '17 - Aug. '17

- Launched confirmation dialog for destinations that were deemed too far away for the Google Assistant using C++, affecting 10% of all navigational queries on mobile
- Worked closely with voice UI designers to improve Search categorical voice response in Java
- Created dialog using C++ and dialog frames to iterate through results for Assistant on eyes-free devices, impacting 22% of all categorical queries

NVIDIA

Camera Software Tools Engineering

Sept. '16 - Dec. '16

- Designed and developed an automatic Python Auto White Balance (AWB) validation framework
- Greatly simplified C++ cross platform image tuning program using multiprocessing

Blue J Legal

Software Developer

Jan. '16 – Apr. '16

- Developed web apps using React, Redux frontend, Node.js, Koa backend, and MongoDB
- Authored Node.js and Python scripts to analyze and generate machine learning training data

Blackberry

Firmware Developer

May '15 – Aug. '15

• Developed Unix accelerometer, gyroscope and time of flight sensor drivers using C and C++

PROJECTS

Reflect Smart Mirror

github.com/ProjectReflect

• Aggregates relative productivity and health data through various RESTful endpoint calls

EDUCATION

University of Waterloo

Sept. '14 – Apr. '19 (expected)