Joshua Learn

Student and prospective software engineer

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EDUCATION

Columbia University, New York NY — B.S. *Computer Science*

SEPTEMBER 2016 - MAY 2020

GPA: 3.7/4.0

EXPERIENCE

Facebook, *Software Engineer Intern*

MAY 2019 - AUGUST 2019 NEW YORK, NY

- Worked on testing infrastructure for mobile compilers
- Wrote an end-to-end pipeline for automatically detecting compiler performance regressions

Facebook, *Software Engineer Intern*

MAY 2018 - AUGUST 2018 MENLO PARK, CA

- Worked on new programming language "Skip" compiler team (http://www.skiplang.com/)
- Designed and wrote Skip benchmarking API
- Wrote Skip process spawning API
- Implemented automatic Skip program profiler
- Wrote infrastructure for tracking compiler performance over time

Columbia Bartending Agency, *Webmaster*

APRIL 2018 - CURRENT NEW YORK, NY

- Maintain and expand the Django-based website used for booking 800+ bartending events annually and managing 180+ bartenders
- Migrated website to a new e-signature platform to save revenue
- Migrated AWS server infrastructure to use Docker

Columbia Data Science Institute, *Software Developer Intern*

MAY 2017 - AUGUST 2017 NEW YORK, NY

- Contributed to ArxivLab, an open source site offering querying and tooling for the Arxiv scientific database
- Created an entire website in two weeks for annotating scientific equations (Stack: Node, Express, React, SQL)

Northrop Grumman, *Software Engineer Intern*

MAY 2017 - AUGUST 2017 HERNDON, VA

- Worked on Java/SQL-based Army financial applications
- Helped create the beta version of a new application used for exporting database tables faster than the built-in Oracle counterpart

FAMILIAR LANGUAGES

Python, Java, JavaScript, C, PHP, (some) Ocaml, (learning) Haskell

FAMILIAR DATABASES

MySQL, PostgreSQL, Neo4j

RELEVANT COURSEWORK

Operating Systems, Databases, Compilers, Computer Networks, Reliable Software, Functional Programming in Haskell, Computer Architecture

PROJECTS

Detecting memory leaks in Android apps

MAY 2019 - CURRENT

This project aims to use static analysis of Dalvik Bytecode to detect memory and system resource leaks in Android applications. I am currently working with Columbia CS faculty to improve this project.