Arvind **Raghavan**

Software Developer

Education

University of Texas at Austin BS in C.S. Honors - Turing Scholar Major GPA: 3.95, Overall GPA: 3.89

Experience

Robinhood **Software Development Intern**, Summer 2020

Menlo Park, CA

- Architected and successfully completed a zero-downtime migration of Robinhood's dynamic configuration service, including a zero-downtime database migration, migrating REST APIs with intermediate states, implementing token-based authentication, and backporting existing permissions, all while maintaining a seamless experience for the end-user.
- Designed and implemented namespace-level permissions for Robinhood's dynamic configuration service, involving coordinating with around a dozen teams to ensure that there was no downtime for making changes to essential configuration values such as killswitches.

Jane Street

Software Development Intern, Summer 2019

New York City, NY

- Built distributed DHCP server from scratch in OCaml to support online configuration changes and synchronization across locations around the world.
- Enabled 10x speedup in stock monitoring service by profiling and eliminating bottlenecks. Also split all non-essential work into a separate process that can be killed during heavy workloads.

Zilliant, Inc.

Software Development Intern, Summer 2018

Austin, TX

Developed an end-to-end solution to integrate Scikit-learn algorithms into Data Science platform.

Advanced Research Laboratories

Intern, Summer 2017

Austin. TX

Developed Python test framework to analyze satellite positioning tools and won first place award among interns at cumulative presentation.

About

Graduating December 2020 I am passionate about building fast, reliable and scalable applications. I love learning new systems and technologies and finding ways to make things better. I currently live in Austin, TX but am willing to relocate!

□ raghavan.arvind@gmail.com

github.com/raghavan-arvind

in/arvind-raghavan-ut

Languages Used

Python • Java • Bash • C • C++

Go • Javascript • Docker • SQL

Postgres • AWS • OCaml • React

HTML • CSS

Relevant Courses

(h) = Honors, (g) = Graduate

Data Structures (h)

Computer Architecture (h)

Operating Systems (h)

Algorithms and Complexity (h)

Network Security (h)

Concurrency (h)

Prediction Mechanisms in

Computer Architecture (g)

Honors

National Merit Scholar

Valedictorian

U.S. Presidential Scholar Candidate

National AP Scholar

Research

CrashMonkey

Professor Vijay Chidambaram, Fall 2019 - current

- Programmatically generated crash consistency tests for xfstests, the Linux filesystem test suite. Currently working with Linux developers to patch nine tests to master.
- Built a fuzzer to search for crash consistency bugs. Reported strange behavior to Linux developers.

Neural Network Prefetcher

Professor Calvin Lin, Spring 2018

Trained LSTM neural networks on complex memory access patterns in order to assess the potential of putting in a trained machine learning model into a hardware prefetcher.