Tobias Pristupin

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Education ____

Stripe

Washington University in St. Louis - Expected May 2024

St. Louis, MO

BACHELORS OF SCIENCE IN COMPUTER SCIENCE AND MATHEMATICS

08/2020 - 05/2024

- GPA: 3.99/4.00
- Awards: John B. Ervin Scholar: \$240k Full ride scholarship with 1% acceptance rate
- Coursework: Data Structures & Algorithms (A+), Discrete Math (A+), Linear Algebra I & II (A+), Probability & Stats (A), Systems Programming (A+), Operating Systems (A+), Parallel Programming (A+)

Work Experience & Projects _____

NYC

SOFTWARE ENGINEERING INTERN

05/2022 - 08/2022

- Improved min/p90 latency by 11% and 23% while keeping throughput constant for the main requests executor, affecting every Stripe product.
- Directed a rollout to migrate 200 services in production across 60 teams to my executor.
- Designed and proposed project to improve kubernetes server health checking

FacebookMenlo Park, CA

UNIVERSITY SOFTWARE ENGINEERING INTERN

06/2021 - 08/2021

 Designed and implemented community building Android app that scales to 100k+ users. Used Firebase DB and Cloud Storage, Google NLP REST API, RxJava, Retrofit, Unit Testing.

Real Time Systems Lab

Washington University

Undergraduate Researcher

2022-Present

- Reduced max latency of a real time system (CycloneDDS) by 5% by tuning message payload size in relation to the network stack configuration.
- Identified sources of lock contention and reduced them by improving the synchronization approach, limiting time spent in kernel space and improving latency.

Head Teaching Assistant For Systems Programming

Washington University 2022-Present

CSE DEPARTMENT

- Elected by professors based on outstanding performance in the class
- Assist professor on course logistics, provide academic support to students, hold weekly lectures on course material

Lox Programming Language Research Study

Washington University 2020-2021

RESEARCHER & DEVELOPER

- Developed an interpreter in C++ for the Lox Programming language as a personal project.
- Created a bytecode compiler and a stack based virtual machine for Lox as a research project.
- Implemented my own garbage collection algorithms based on multiple research papers. Benchmarked the algorithms and wrote a research paper summarizing my findings.

Volunteering_____

SErvin
PRESIDENT
Washington University
01/2020 - Present

- Restarted an inactive community service group within John B. Ervin scholars
- Directed multiple community outreach events with UnhousedSTL for a group of 30 scholars

Skills_

Experience with

C, Java, Python, C++, Linux, OS, Systems Programming, Compilers, Android Dev, Firebase, Arduino, Bilingual (Spanish and English), Self Taught