

Tobias Pristupin

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Education

Washington University in St. Louis - Expected May 2024

BACHELORS OF SCIENCE IN COMPUTER SCIENCE AND MATHEMATICS

St. Louis, MO
08/2020 - Present

- GPA: 3.98/4.00
- Awards: John B. Ervin Scholar: \$240k Full ride scholarship awarded to 25 students per year
- Coursework: Data Structures and Algorithms (A+), Discrete Mathematics (A+), Linear Algebra I (A+), Full Stack Web Development (A+), Probability (A), Systems Software (A+)

Work Experience & Projects

Facebook

UNIVERSITY SOFTWARE ENGINEERING INTERN

Menlo Park, CA
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.
- Shadowed full time engineers to learn development workflow. Learned Phabricator, best practices for code review and Git.

Parallel Computing Technology Group

RESEARCH ASSISTANT

Washington University
2021-Present

- Working jointly with a PhD student to develop an environment for a distributed ACID DB (FoundationDB) using Docker and Kubernetes

Teaching Assistant For Discrete Math and Systems Software

WASHU CSE DEPARTMENT

Washington University
2021-Present

- Elected by professors based on outstanding performance in the class
- Discrete Math: Tutored students on logic, proof techniques, probability, and computation
- Systems Software: Assisted students in projects such as a cache simulator, memory allocator

Lox Programming Language Research Study

RESEARCHER & DEVELOPER

Washington University
2020-2021

- 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 an independent research project under the supervision of Professor J. Shidal.
- Implemented my own garbage collection algorithms based on multiple research papers. Benchmarked the algorithms and wrote a research paper summarizing my findings.

Minimal Running

DEVELOPER - PERSONAL PROJECT

GitHub
2018-2019

- Published Android application with 100+ downloads. Allows user to log their running activities and view statistics on their progress. Users can use an account to store their data online.

Volunteering

SErvin

CO-PRESIDENT

Washington University
01/2020 - Present

- Restarted a community service group within John B. Ervin scholars that had been inactive for 5 years.
- Directed community outreach events with UnhousedSTL for a group of 30 scholars

Skills

Experience with

C++, Java, Python, C, JS, PHP, SQL, Linux, Systems Programming, Compilers, Android Dev, Firebase, AWS, RxJava, Arduino, Bilingual (Spanish and English), Self Taught