Jack Palaia

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Education

Georgia Institute of Technology, Atlanta, GA *August 2023*
B.S. in **Computer Science**, GPA: **3.78/4.0**
Coursework: Operating Systems, Networking, Artificial Intelligence, Machine Learning, Data Structures and Algorithms

Skills

Languages: Rust, C++, Go, Java, Python, C, Typescript, SQL
Technologies: Linux (Azure, Ubuntu), Docker, Kubernetes, React, NextJS, Pandas, Git, AWS (S3, EC2),

Experience

LinkedIn, Sunnyvale, CA *September 2023 – Present*
Software Engineer (Systems and Infrastructure) – Rust
- Designed and implemented a distributed key-value database in Rust for storing 10+ PB of metadata at 1MM+ QPS with <5ms reads and writes and linearizable single-key operations
- Designed a cluster-wide backup and restore system for data integrity with a <10 minute recovery point objective
- Designed a fault-injection framework for dynamically introducing failures into the system
- Designed and implement a nightly benchmarking setup for continuous performance monitoring
- Defined observability and alerting criteria for productionization and operability
- Led onboarding operations for multiple projects at LinkedIn

LinkedIn, Sunnyvale, CA *May 2022 – August 2022*
Software Engineer Intern (Systems and Infrastructure) – Java
- Prototyped an asynchronous, multithreaded, distributed task execution engine for processing generic, user-defined functions and scripts. Built on top of Apache ZooKeeper. Shown to increase throughput for short-running tasks by 76% when compared to Apache Helix task framework.

Amazon, Seattle, WA *May 2021 – August 2021*
Software Engineer Intern – Java, TypeScript
- Implemented a homepage feature that collects user interest data on topics such as activities and sports teams. Backend implemented with Java and DynamoDB, UI implemented with TypeScript.

Dreambound, San Francisco, CA *January 2021 – May 2021*
Software Engineer Intern - TypeScript, React, NodeJS, Python
- Designed internal tool for automating the querying of credit report data for newly acquired customers
- Designed Docusign-like tool for automating creation and sending of documents for e-signatures

Nomad, Remote *December 2020 – January 2021*
Software Engineer Intern - JavaScript, React, NodeJS
- Implemented frontend homepage with React, including auth system with OAuth2

Georgia Tech Foundation, Atlanta, GA *August 2020 – December 2020*
Investments Intern - Python
- Designed data pipeline that ingests articles and analyzes them for sentiment using NLP techniques

Georgia Tech Student Foundation, Atlanta, GA *December 2019 – March 2020*
Quantitative Analyst - Python
- Developed stock trading backtester for testing historical performance of in-house stock trading strategies

Projects

Reddit Video Transcription Bot | *Python, AWS EC2* *August 2021*
Flashcard Study Tool Web App | *JavaScript, NodeJS, React* *July 2020*

Interests/Fun Facts

- I can describe any country's flag from memory. I also know world capitals, borders, and other geographical facts.
- I've been independently studying art history recently. My main interest is 19th century impressionism.
- Some of my other interests include weightlifting, golf, tennis, poker, and traveling.