RASHAD PHILIZAIRE

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EDUCATION

Turing Scholar CS Honors, University of Texas at Austin

B.S Computer Science | May 2024

• Selected Coursework: Cloud Computing, Artificial Intelligence, Natural Language Processing, Computer Architecture*, Data Structures*, Operating Systems*, Info Retrieval & Search, Software Engineering, Algorithms & Complexity (* Indicates Honors)

EXPERIENCE

Stripe

Software Engineering Intern | ## May 2023 - Aug 2023

- Achieved an ~85% reduction in engineering costs of adding an External Payment Method to Stripe through strategic refactoring
- Unblocked Stripe adoption by enabling merchants to integrate with 60 previously unsupported payment methods
- Reduced operational costs for Stripe by leveraging Apache Airflow and Spark to create a data pipeline for financial partners
- Enhanced scalability of the third-party payment method platform by using Protobuf and gRPC to expose self-serve settlement data
- Enabled Stripe to enforce partner settlement SLA by using Java to automate settlement calculations adaptable to any country

Meta (Facebook)

Meta University Intern | # Jun 2022 - Aug 2022

- Tarrare Developed a full-stack app using to connect students on campus for food deliveries
- Implemented a real-time order and delivery matching system, providing live updates with GraphQL Subscriptions
- Optimized location services by integrating Google Places/Routes APIs for restaurant/building locations and distance calculations
- Serving a **GraphQL** API written in **Typescript** that queries a **PostgreSQL** database for users, restaurants, conversations, and orders

Yext

Software Engineering Intern | # Jun 2021 - Aug 2021

- Created a system to automatically store webhooks for clients using the Yext Pages' Git version control to allow for data recovery
- Developed file sharing service using React and the Monaco Editor API for the Yext Pages' code editor
- Optimized loading times of widgets by refactoring gRPC clients' initialization

Google

Computer Science Summer Institute | 🛗 Jul 2021 - Aug 2021

- Created a pose comparison video streaming application using ml5js PoseNet
- Delivered a collaborative final project presentation that included a live demonstration to Google employees and community leaders

PROJECTS

Vision | Django Rest Framework, Celery, Redis, Docker, PostgreSQL, React Native

- Developing a community platform for students seeking professional opportunities using Django Rest Framework to create an API
- Utilized Celery to update popularity score of posts asynchronously, improving the overall scalability of the platform
- Implemented Redis as both a message broker and an in-memory cache to minimize latency for retrieving popular posts
- Containerized the application and all dependencies using Docker Compose, streamlining deployment

Personal Al Knowledge Base | PostgreSQL, PGVector, Python, GPT-3.5

- Developing a self-organizing personal knowledge base powered by word embeddings and large language models
- · Utilized PostgreSQL with PGVector for efficient storage and retrieval of word embeddings
- Implemented Retrieval Augmented Generation (RAG) techniques, leveraging GPT-3.5 for intelligent Q&A on personal notes
- Addressed note retrieval challenges by incorporating semantic search to enhance content discovery

Partial Python Compiler | OCaml, LLVM

- Penne Used OCaml to create a partial compiler for Python that supports indentation standards, functions with arguments, conditional branches, loops, and arithmetic
- Converts Python code into tokens, builds an Abstract Syntax Tree (AST), traverses AST to generate LLVM bitcode
- LLVM bitcode is converted to machine language, in cases leading to a 50x speedup when compared to interpreted Python

SKILLS