

CHARAN SRIRAM

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EDUCATION

The University of Texas at Austin

May 2025

B.S. Honors Computer Science, BBA Canfield Business Honors, BBA Management Honors

Relevant Coursework: Operating Systems, Concurrency, Machine Learning, Computer Architecture, Algorithms, Autonomous Driving

EXPERIENCE

Tunnel – Software Engineering Intern; New York, New York

September 2023 – Current

- Selected against 300+ candidates to work on Neo VC backed collaborative tunneling server
- Built and deployed two-way real-time messaging Slack integration in Typescript connecting Convex DB to Slack API for 200+ users
- Architected logging system to record network activity, console history, and RRWeb-based screen recording

Capital One – Software Engineering Intern; Plano, Texas

May 2023 – August 2023

- Developed concurrent network request scheduler deployed on AWS EC2 in Java, handling up to ~500 requests per second
- Created new CI/CD pipeline in Jenkins with 95% test coverage connected to AWS ECS
- Built async translation engine in Typescript to convert text to 30+ languages based on user preference
- Diagnosed and fixed race condition on page load, leading to ~40% speed increase across 12 auto loans services

University of Texas at Austin – Teaching Assistant, Operating Systems; Austin, Texas

January 2023 - May 2023

- Taught and debugged systems related concepts such as threading, virtual memory, and file systems for class of 80 students
- Held office hours, facilitated discussions, and created assignments & quizzes every week (15hrs/week)
- Received end of course rating of 4.65 from 52 students across all categories (communication, knowledge, engagement)

PROJECTS

Phazia (bit.ly/phazia) – Founding Engineer

January 2019 – August 2023

Drag and drop multiplayer app builder that generates multi-framework code for mobile apps

- Architected and implemented concurrent multiplayer engine using CRDTs in Rust, reducing memory usage by 15x
- Migrated existing JSON data model to Protobuf based model reducing network request sizes by ~75%
- Built frontend and rendering engine using React, TypeScript, Redux, and Styled-Components
- Developed code generation algorithm converting data model to ASTs, targeting Dart/Flutter and Swift/SwiftUI

Phases (bit.ly/phases-demo) – Lead Developer (open source)

May 2023 – August 2023

- Created concurrent tunneling service in Golang, reducing memory footprint by 4x compared to JavaScript equivalent
- Pioneered HTML to AST mapper for React allowing for selection of underlying code for LLM based edits

ChatOS – Developer

January 2023 – May 2023

- Built functional Operating Systems Kernel and GUI from scratch in C++ with team of 20+ peers
- Implemented UDP protocol from scratch in QEMU, implementing E1000 NIC driver

Clove – Lead Developer

July 2020

- Conceptualized and developed front-end behind recipe-sharing app using React, Redux, Firebase, and Styled-Components
- Placed 1st against 20 teams and awarded \$1000 + all-expenses paid trip to Pinnacle 2021

LEADERSHIP EXPERIENCE AND ACTIVITIES

CSBash – Director

August 2023 – Present

- Designed curriculum assisting underclassmen with CS recruiting and honors coursework for 40 members
- Organized biweekly meetings and workshops with upperclassmen across various fields (SWE, PM, PE, IB, etc.)

Computer Science and Business Association – Vice President of Growth

August 2022 – May 2023

- Elected to position to handle prospective student events, club-staff relations, and inter-org activities for 90+ members
- Designed and developed website frontend/backend (texascsba.org) receiving 8 sponsorship requests (BoFa, Intuit, A&F, etc.)

Texas Isshinryu Karate Kai (TIKK) – Team lead/event coordinator

January 2016 - January 2022

- Supervised team of 34 to organize multi-day fundraisers and martial arts seminars with typical attendance of 200-250 members
- Orchestrated three-day overnight training camp with over 260 competitors that raised over \$25,000

HONORS

- Neo Scholar 2023
- Third Place (3/45), General Category, Datahacks Hackathon 2022
- First Place (1/20), General Category, Everest Hackathon 2020

ADDITIONAL INFORMATION

Programming Languages: C++, Golang, Rust, Python, JavaScript, TypeScript, Java, CUDA, SQL, Dart, C

Frameworks and Platforms: EC2, S3, CloudFormation, Redis, Redux, Firebase, Docker, Node.js, React, Actix-Web