Abid Rais

✉ abidrais1843@gmail.com | ☎ REDACTED | 🔗 abidrais.pro | ⌨ Abid-Rais | in Abid Rais

EDUCATION

New York University, Tandon School of Engineering   Brooklyn, NY | May 2021

B.S. in Computer Science

Relevant Coursework: Parallel and Distributed Systems, Operating Systems, Databases, Unix Programming, DevOps, Object Oriented Programming, Data Structures and Algorithms, Design and Analysis of Algorithms, Programming Languages, Computer Architecture, Software Engineering

TECHNICAL SKILLS

- Programming: Python, Go, C++, Typescript, Haskell
- Databases: PostgresSQL, MySQL, MongoDB
- Web: ReactJS, ReduxJS, GraphQL
- Frameworks: Django, Iris, Flask

EXPERIENCE

New York University | *Teaching Assistant, Programming Languages*   Remote | Dec. 2020 - Present

- Curate programming exercises and assignments in Haskell, Smalltalk, and Prolog.
- Lead office hours and monthly review sessions for a college-level course of 30+ students.

New York University | *Teaching Assistant, Computer Architecture*   Remote | Sept. 2020 - Present

- Plan lessons for and teach weekly recitation sections and office hours for a cohort of 40-50 students.
- Assist in designing and grading challenging course material for a college-level course of 140+ students.
- Developed an automated testing suite in Python for students to test their assembly language projects with.

Mkono | *Software Engineer Intern*   Remote | June 2020 - Sept. 2020

- Planned and built an online portal to help entrepreneurs track and analyze their financial business needs.
- Developed website with Django and ReactJS and established a bidirectional data flow between a PostgresSQL database and Google Sheets.
- Integrated a data store with ReduxJS to manage application state and code maintainability.
- Launched online portal, which is currently in use by 30+ entrepreneurs internationally.

PROJECTS

Distributed Blogging Platform (Go, Iris, HTML)   Fall 2020

- Built a web application to allow users to create, read, update, and delete blog posts.
- Implemented communication between the frontend and backend with TCP and custom protocols.
- Redesigned multithreaded backend to handle chronologically overlapping requests from multiple frontends.
- Integrated a replicated data store and failure detection using the Raft consensus algorithm.

Chat Room (Go, ReactJS)   Fall 2020

- Created a chat application using socket programming to allow messaging between various users.
- Implemented a group chat feature through the use of multithreading, goroutines, and channels.
- Improved the app with a redesigned GUI, as an alternative to the command line interface.

Ledger (Python, Django, GraphQL, MongoDB, ReactJS)   Summer 2020

- Developed a web application to audit bank transactions and generate visual analytics.
- Updated the backend to support querying with GraphQL and storage upon a MongoDB database.