Shafin Ashraf

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Work Experience

Shikho

Backend Developer Intern (July 2021 - September 2021)

Tech stack: *Go, GraphQL, gRPC, ArangoDB, PostgreSQL*

- Implemented graphql subscription specification to send realtime event to users
- Worked with rabbitmq to handle asynchronous data processing
- Automated a lot of database migration and deployment process
- Worked on user authentication through websocket

Skills

Languages: *Go, Rust, Javascript, Typescript, Java*
Technologies: *Git, NodeJs, React, ElectronJs, Rabbitmq, Vim, SQL, ArangoDB*

Notable Projects

Pakhi Bhasha

Pakhi is a dynamically typed garbage collected bangla prigramming language

- Implemented a mark-sweep garbage collector
- Designed and implemented a module a system to support modular programming
- Learned a new programming language, rust
- Worked on unit test and integration test
- Learned a lot about proper software desgin

Github repository:*https://github.com/Shafin098/pakhi-bhasha*

Signature Recognizer

Signature recognizer is a zero dependecy machine learning project that can recognize signature

- Implemented a complete neural net without any external ml library
- Gathered and cleaned training data and trained a neural net model
- Created a image pre-processing data pipeline
- Worked on model persistence to serial and deserialize java objects

Github repository:*https://github.com/Shafin098/signature_recognizer*

Autograd

Autograd is a computational graph librabry that can automatically calculate calculus gradients

- Learned how computational graph works and implemented in java

Github repository:*https://github.com/Shafin098/autograd-java*

Chorui

Chorui is a code editor for pakhi programming language with first class bangla language support

Github repository:*https://github.com/Shafin098/chorui*

Education

Dhaka Polytechnic Institute

Diploma in computer technology

2017 - 2021 (expected)

Activities

- Participated in Standard Chartered Bangladesh-Prothom Alo Inter School and College Programming Contest 2018
- Participated in WYSD-2019 programming contest
- Achieved best web based project in a class project
- Participates in Advent of Code every year