Khayyam Saleem

Education

Aug 2015 - May 2019

B.S. Computer Science Stevens Institute of Technology, *Hoboken, NJ 07030*

Honors: Dean's List, Presidential Scholarship
Minors: Mathematics, Literature
President of Upsilon Pi Epsilon [Computer Science Honor Society]

Experience

May 2019 - Present

Software Engineer, J.P. Morgan & Chase, *Jersey City, NJ*

- Created continuous deployment pipeline (via Jenkins) for documentation site

Jun 2018 - May 2019

Software Engineer Intern, J.P. Morgan & Chase, *Jersey City, NJ*

- Built SRE assessment portal for SRE team (end-to-end) [Flask, SQLAlchemy, React]
- Deployed RESTful API to perform a health check on message queue infrastructure for Infrastructure team [Java, JMS, Spring Boot, Maven]

Dec 2018 - Present

Curriculum Experience Associate, Codecademy, *Manhattan, NY*

- Audit curriculum content across all courses
- Built and deployed internal ledger and review system for content changes [Go, React]
  - *Ask me more about this!*
- Fix bugs in content, including tests for learner code and assisting in pedagogy

May 2017 - Aug 2017

Research Assistant, New Mexico State University, *Las Cruces, NM*

- NSF REU site
- Deep Learning for Control Chart Pattern Recognition
- Presented findings at AAAS 2018 ERN Conference for STEM

Aug 2016 - Dec 2018

Codecademy Pro Advisor, Codecademy, *Manhattan, NY*

- Moderate learner communities for "Intensive" courses for data science and data visualization
- Perform QA on upcoming content and new courses

Aug 2016 - Present

Teaching Assistant, Stevens Institute of Technology, *Hoboken, NJ*.

- CS115 – Intro to CS, conducted weekly lab, wrote grading scripts [Python]
- CS284 – Data Structures, taught weekly recitation, wrote assignments [Java]
- CS496 – Programming Languages, ported course from Racket to OCaml

- CS511 – Concurrent Programming, ported course from Erlang to Elixir

Personal Projects

Life Skills Software

A platform for special-needs classrooms, gamifying the assessment and development of life skills

- Communicated with potential clients about their needs for the platform
- Created microservice architecture deployed on a single VPS [Traefik]
- Developed web app with token-based authentication, S3 for static assets [React, DigitalOcean Spaces]
- Created CI/CD pipeline for team of 3 to develop and deploy quickly [Jenkins, docker-compose, Github Webhooks]
- Created CI/CD pipeline again with Gitlab CI
- *I could talk about LSS for days, please ask more*

Client Connect

Application designed to help clients connect with freelancers based on location and skillset

- Built REST API [node, express, MongoDB]
- Created frontend application with token-based authentication for clients and freelancers [Next.js, React]
- Created uniform development environment that deployed all services locally [docker-compose]
- Implemented chat application with message caching [Socket.IO, redis]

gradual-typing
type-inference

Implementation of gradual typing in MIT-scheme
Implementation of Hindley-Milner type inference engine in OCaml for Type Systems course

Skills

Languages

go, javascript, python, java, c, c++, sql, ocaml, erlang, racket, clojure, english, urdu, hindi

Frameworks

react, redux, express, node, flask, LaTeX, sqlalchemy, docker, traefik

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