Khayyam Saleem

Education

Aug 2015 - Present

B.S. Computer Science Stevens Institute of Technology, *Hoboken, NJ 07095*

Honors: Dean's List, Presidential Scholarship
Minors: Mathematics, Literature
President of Upsilon Pi Epsilon [Computer Science Honor Society]
GPA: 3.877
Expected Graduation: May 2019

Experience

Jun 2018 - Present

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

- Built SRE maturity assessment portal for SRE team as full-stack application [Flask, SQLAlchemy, React]
- Deployed RESTful API to perform a health check on JMS messaging provider for Global Technology Infrastructure team [Java, JMS, Spring Boot, Maven]

Dec 2018 - Present

Curriculum Experience Associate, Codecademy, *Manhattan, NY*

- Audit curriculum content across all courses
- 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/tested assignments [Java]
- CS496 – Programming Languages, ported course from Racket to OCaml
- CS511 – Concurrent Programming, ported course from Erlang to Elixir

Projects

Life Skills Software A platform for special-needs classrooms, gamifying the assessment and development of skills

- Communicated with potential clients about their needs for the platform
- Built REST API [node, express, MongoDB]
- 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]
- Scrum master for Agile team [Trello]

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

Skills

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

Frameworks express, node, flask, LaTeX, pandas, matplotlib, sqlalchemy, docker, traefik, emacs, vim

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