NYKOLAS FARHANGI

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EDUCATION

Bachelor's of Science in Computer Science

University of Houston, Cumulative GPA: 3.81   Anticipated Graduation: December 2021

Dean's Distinguished Scholars List Spring 2020 Term

Relevant Coursework: Computer Organization & Architecture, Algorithms and Data Structures, Programming-Fundamentals, Linear Algebra, Discrete Mathematics, Calculus

WORK HISTORY

DevOps Intern at Tokio Marine HCC — Houston, TX   August 2020 — Present
- Hand selected by Cloud and DevOps Department to start unique part-time internship through Fall
- Serving on a small team to research and implement disruptive technologies across TMHCC business groups

Information Technology Intern at Tokio Marine HCC — Houston, TX   May 2020 — August 2020
- Worked under the Project Management Organization on a team of interns to serve various roles on business-facing projects
- Spearheaded initiative to create a full-stack web application utility to simplify configuration file creation with input guardrails utilizing ReactJS, Python Flask, and MongoDB
- Developed automated full-feature testing suite for client-facing payment portal web application and used Docker to create an executable package for integration into the application's AWS CodePipeline
- Utilized Selenium and TestNG via Maven to architect a generic UI Functional test suite framework
- Employed FTP, REST, and SQL to automate data extraction to aggregate HR and financial data
- Shadowed numerous IT professionals across TMHCC business groups including DevOps, App Dev, and Cybersecurity

DC2 Website — Demand Control 2 Commission   November 2019
- Commissioned by Demand Control 2 to design, program and implement a frontend website brochure
- See live at demandcontrol2.com

PERSONAL PROJECTS

Crude Gradebook — Personal Project   March 2020
- Planned, designed and programmed a full stack web application utilizing ReactJS, Python Flask, and MongoDB
- Full feature account system that allows users to input transcript information to calculate GPA and visualize trends incorporating Material UI and Nivo React UI frameworks
- Employs RESTful backend service in Python and implements JWT and Bcrypt to protect endpoints and user information
- Containerized into one binary by combining Node.js, Python, and Alpine images via Docker

HoneyComb — Personal Project
- Developed a two dimensional platform-genre physics simulator using no external dependencies or code in Java
- Purpose-built highly generic and modular code structure that strictly abides by modern programming conventions
- Features customizable state-machine A.I. with artificial senses that make for an advanced detection system

Crude Scene Editor — Personal Project
- Programmed multi-layer grid-based world designer featuring a modular and customizable tool suite using Swing in Java
- Created novel and unique data compression algorithm and file type to store world information
- Implemented action-tracking for undo/redo, preview mode to paint shading, and shortcut key combinations

VOLUNTEER WORK

Tutor for CougarCS — University of Houston   February 2020 — Present
- Acted as a Teaching Assistant in introductory C++ programming laboratories in Spring 2020
- Currently tutoring for C++, Python and Java in one-to-one and group settings

Over 90 hours on record of total volunteering hours.

SKILLS

Programming Languages: Java, C++, Python, JavaScript, HTML/CSS, SASS, SQL, C#, MATLAB, R
Libraries and Frameworks: ReactJS, Node.js, Maven, NuGet, Bootstrap, JWT, Bcrypt, Python Flask, MongoDB, JQuery, SQL Server
Tools: Github, AWS CodeCommit and CodePipeline, Docker, Kubernetes, Microsoft Enterprise Tools, Windows, Mac OS, Linux
Additional: Agile Scrum and Kanban, DevOps, ITSM, ITIL, Visual Studio, JetBrains IDEs