

# NYKOLAS FARHANGI

[nykolasfarhangi@protonmail.com](mailto:nykolasfarhangi@protonmail.com) • [linkedin.com/in/nykolasfarhangi/](https://www.linkedin.com/in/nykolasfarhangi/) • [nykolas.me](https://nykolas.me) • Houston, TX

## EDUCATION

### Bachelor's of Science in Computer Science

Anticipated Graduation: May 2022

University of Houston

- Cumulative GPA: 3.70
- Dean's List for terms Spring 2020, Fall 2020, Spring 2021
- Relevant Courses: Data Structures, Algorithms, Computer Architecture, Automata, Operating Systems, Software Design, Software Engineering, Foundations of A.I., Immersive Technology (XR/AR/VR) Development, Computer Networking

## WORK EXPERIENCE

### Full Stack Developer Intern | IBM, Systems, IBM i

May 2021 — August 2021

- Interns as developer for Performance Collection Tools and contributes to production build of IBM i 7.5
- Uses Angular, Dojo, Maven, SQL, and IBM i interfaces to migrate and enhance legacy codebases to modern standards

### DevOps Intern | Tokio Marine HCC, Cloud and Platform Services

August 2020 — May 2021

- Architected robust solutions to promote cloud enablement, automation, and best practices across TMHCC business units
- Principle developer on in-house CI/CD pipeline builder that generates application pipelines from configuration files
- Built general-purpose chatbot generator built on Amazon Lex to enable company teams to create and consume chatbots
- Created serverless multi-account auto-tagger Lambda which enforced tagging synchronicity between cloud resources and GraphQL database for cost transparency and organization

### IT Intern | Tokio Marine HCC, Project Management Office

May 2020 — August 2020

- Developed an automated application test suite for a payment portal web client utilizing Selenium and TestNG via Maven
- Produced an executable package via Docker to integrate test suite as a stage of the application's CodePipeline

## PROJECT EXPERIENCE

### HP/AWS Bot-a-thon | Team Lead

January 2021

- Won 1st place overall by demonstrating an enhanced Amazon Lex chatbot with a Lex chatbot generation pipeline
- Paired Amazon Lex with AWS Lambda and AWS DynamoDB to enable bot to store information, manage dialog and call APIs
- Constructed a pipeline which inputs a configuration file and outputs an enhanced Lex chatbot via AWS S3 and AWS Lambda

### CodeRED Hackathon | Team Lead

November 2020

- Won 2nd place for Student Help hack by creating a service where students can safely find free download links of textbooks
- Created a full-stack web application incorporating web scrapers to search and index direct download links of user queries

### Crude Gradebook | Personal Project

May 2020

- Created a full-stack web utility to help students track and forecast their academic career using React, Flask and MongoDB
- Features secure account system that incorporates JWT and Bcrypt to protect sensitive user information

### HoneyComb | Personal Project

- Programmed 2D platformer physics simulator from scratch in Java to be my own development sandbox
- Features generic and modular code OOP structure, state machine A.I. with simulated senses and smooth camera tracking

## LEADERSHIP AND ACTIVITIES

### President | CougarCS

May 2021 — May 2022

### Vice President | CougarCS

December 2020 — May 2021

- Organized team objectives, tracked and maintained backlog, oversaw club committees, and hosted several more workshops
- Led AWS adoption initiative and centralized CougarCS's scattered cloud on one platform

### Director of Tutoring | CougarCS

August 2020 — December 2020

- Founded an online computer science tutoring community that now services over 500 students
- Organized, interviewed and led team of 30+ tutors to offer students help across UH's CS undergraduate course catalog
- Hosted several computer science workshops over technology, career development, fundamental skills

### Tutor | CougarCS

January 2020 — May 2020

## SKILLS

**Programming Languages:** Java, Python, JavaScript, TypeScript, C++, HTML/CSS, SASS, SQL, C#

**Frameworks & Libraries:** Node.js, React, Angular, Express, AWS SDKs and CDK, SNOW, Maven, NuGet, Python Flask, JWT, Bcrypt

**Tools:** Git, AWS, Docker, Kubernetes, Azure, MongoDB, GitLens, Shell, Azure, Windows, Mac OS, Linux distros

**Additional:** AWS Cloud Practitioner, DevOps, Scrum, Kanban, IBM i Systems, ITSM, ITIL, Visual Studio, JetBrains IDEs