SNEHITHA KODALI

Website | ksnehitha30@gmail.com | LinkedIn |Arlington, TX

SUMMARY

- Graduating with Masters in Computer and Information Sciences in May 2023.
- Interned at Amazon in Summer, 2022 as Software Development Engineer.
- 2+ years of full stack Software Development experience for global companies.
- Seeking a challenging Software Engineer role that fosters my learning.

PROFESSIONAL EXPERIENCE

AMAZON.COM INC, *Software Development Engineer Intern*   MAY 2022 – AUG 2022, TX

Business Context:
- Customer Service content team at Amazon looks for opportunities to improve the customer experience by pre-empting any content anomalies.
- Project scope was to report anomalies such as invalid hyperlinks, and non-inclusive language to the content generators and/or administrators.
- Primary use case for this project was Amazon.com site with potential future expansion to other platforms such as Alexa, Prime and Fire TV.

My deliverables:
- Technical design document including design diagrams, application architecture, UI mockups and API design.
- Development of content analyzers that can automatically identify anomalies in the Amazon Help content and notify the user.

Technical Solution:
- Developed front end of the application using ReactJS written in TypeScript, SCSS, Gradle for the author to upload their content dataset and view the response.
- Implemented backend by leveraging Java, Dagger, Maven.
- Built Link Validity Analyzer algorithm by using Regex patterns to extract links and validate HTTP status.
- Developed an algorithm to identify non-inclusive phrases and notify the user using "Non-Inclusive Amazon API".
- Used AWS AppSync for achieving integration of layers within the application.
- Leveraged S3 bucket to host the datasets uploaded by the author to enable centralized access.

COGNIZANT TECHNOLOGY SOLUTIONS, *Full Stack Developer*   JUNE 2019 – FEB 2021, INDIA
Client: A large financial institution in the Netherlands
- Developed user management module for Customer Online Banking application using Angular 7, Java 8 and MongoDB.
- Implemented UI components using HTML5, CSS3, Bootstrap4, Angular 7 written in TypeScript and further leveraged the concepts such as data binding for auto synchronization of data and routing for in-app navigation.
- Implemented model-view-controller architecture using Spring framework.
- Created stand alone, production grade user authentication and transaction microservices using Java Spring Boot tool.
- Performed unit testing for UI using Jasmine test framework and Karma test runner; for Java using JUnit framework and Cucumber tool.
- Dockerized the application, used Git as version control system and setup CI/CD with Jenkins.
- Worked in product oriented delivery where end-to-end product responsibilities i.e build, deploy and run were managed by the same team.
- Adopted Agile methodology and Behavior Driven Development approach.
- Led coordination between onshore and offshore teams.

HINDUSTAN AERONAUTICS LIMITED, *Software Engineer Intern*   MAY 2018 – JUN 2018, INDIA
- Designed a system for Flight Recorder (Black Box) to efficiently optimize video using HAL's proprietary software.
- Developed an AI enabled video compression tool using H.264 algorithm.
- Optimized performance and quality of the video for low bandwidth and limited storage.

EFFTRONICS PVT. LTD., *Software Engineering Intern*   MAY 2017 – JUN 2017, INDIA
- Assisted in developing scripts for biometric authentication in Home Automated Security Systems using fingerprint recognition algorithm.

EDUCATION

The University of Texas, Arlington   Arlington, TX
Master of Science, Computer and Information Sciences   EXPECTED: MAY 2023
Specialization in Intelligent Systems, Software Development and Database Management

Shiv Nadar University   Delhi, INDIA
Bachelor of Technology, Electronics and Communication Engineering   MAY 2019

INDEPENDENT AND ACADEMIC PROJECTS

DIABETES MONITORING APPLICATION
- An application designed for diabetic patients to keep track of their blood glucose level and automatically calculate the insulin dosage.
- Created microservices for patient enrollment and diabetes monitoring management functionalities. All these services were dockerized and deployed in Google Kubernetes Engine.

SMART BIKE SHARING SYSTEM
- Developed software to initiate a "Smart Bike Sharing System" that enabled the students at our school to access a reliable, environment-friendly mode of transportation, inspired by the public sharing bicycle system in metropolitan cities.
- Built the mobile application using React Native for user interface that enabled user authentication, QR code scanner, a payment gateway that adds funds from Paytm and charges based on the usage time.

TECHNICAL SKILLS

- **Languages**: Java, Python, PHP, JavaScript, TypeScript, C, MATLAB
- **Database**: MongoDB, MySQL, Google Cloud Storage
- **Web Development:** HTML5, CSS3, AJAX, Bootstrap4, Angular 7, ReactJS, React Native
- **Cloud Familiarity**: GCP, AWS
- **Others**: Android Studio, Xcode, Python Flask, AWS AppSync, Dagger, Java Spring Boot, Maven, Postman, Swagger, Git, Dagger, Handling JSON, JUnit, Cucumber, Jasmine, Karma, Docker, CI/CD Jenkins, IntelliJ, Visual Studio, Rest APIs, Jira, PySpark
- **Certifications**: Application Developer- Adobe Captivate Prime

LEADERSHIP AND ACHIEVEMENTS

UNIVERSITY OF TEXAS AT ARLINGTON, *Graduate Teaching Assistant*   JANUARY 2022 – PRESENT
Teaching Assistant for Design and Analysis of Algorithms (CSE 5311) under Prof. Bob Weems.
Assisted Professor in conducting classes, grade assignments, guiding students on their projects, and arranging guest lectures from external faculty.

SOCIAL JUSTICE PEER EDUCATOR   AUG 2021- DEC 2021
Core member of Social Justice Peer Educators (SJPEs) program that advances Diversity, Equity and Inclusion.
I conducted focus groups on "Identity Inclusion and Privilege", "Navigating controversial conversations", "Entering the community and overcoming the savior complex", "Identifying and overcoming biases".

IEEE JOURNAL PUBLICATION   MAY 2019
Published and presented research on "Analysis of Dielectric Rods Supported Anisotropically Conducting Rectangular Helix Slow Wave Structure". Ref: | DOI: 10.1109/SPIN.2019.8711721.

COGNIZANT OUTREACH   JUNE 2019 – FEB 2020
Cognizant Outreach- an employee led grassroots social initiatives program that provides an official and unified platform for Cognizant associates to volunteer for community service initiatives. I had the opportunity to tutor higher secondary students for their job processes and assist the elderly in using smartphones.

AURA   AUG 2016 – APR 2018
Aura is a student led organization aimed at spreading primary level education in rural areas. I worked with a school run by the Central government of India and created an environment of activity-based learning for middle school students. This helped the kids learn in an immersive manner and retain the material for a longer time.

FEEDING INDIA   AUG 2015 – NOV 2015
I led a team of 50 members at my school to progress the charter of Feeding India, which is a non-profit organization to feed and educate the underprivileged.