

SHUBHAM

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EDUCATION

- **North Carolina State University**, Raleigh, NC || Master of Computer Science Aug'21-Anticipated May'23
Courses: DevOps, Software Engineering, DBMS, Design and Analysis of Algorithms, Computer Networks GPA: 4.0/4.0
- **Guru Gobind Singh Indraprastha University**, India || Bachelor of Technology Aug'16 - Oct'20

SKILLS

Languages: Preferred – Java, Intermediate – Python, Javascript

Databases and Operating Systems: Windows, Linux, DBMS-SQL, Google Firebase

Tools & Frameworks: CI/CD Pipeline Architecture, Docker, Kubernetes, Virtualization & Containers, Ansible, Spinnaker, Fuzzing, Jenkins, Digital Ocean, Android App Development, Bash, Internet of Things, Augmented Reality, Machine Learning, Unity Game Engine, Spark AR Studio, Git, REST APIs, Object Oriented Programming, JSON, shell scripting, Microsoft Excel & Word

WORK EXPERIENCE

Software Engineer Intern, Arista Networks Inc, Nashua, NH, USA

May'22 – Aug'22

- Worked on improving the software toolchain used in Arista's software development and testing environments by **approx 38%**
- Automated workflow of **approximately 15** Jenkins pipeline and deployed into Kubernetes cluster using Ansible.
- Templated the whole Docker Image update from dev to prod using CI/CD tools like Jenkins, Spinnaker by modularizing **more than 12** Jenkins pipelines to **just 3** Spinnaker pipelines and developed the whole architecture.

Software Engineer Intern, Chimps Tech Pvt. Ltd, Delhi, India ([App Link](#), [link](#))

Jun'20 – Aug'20

- Developed full backend core logic of **Rojgar Setu: An Indian Job Search Android App** using Java. Got more than **10k+ downloads and 300+ google reviews**.
- Database stored and maintained using Google Firebase and error monitoring done by applying Google Analytics which helped in circling feedback for more than **7+ states in India**.
- Completed User Authentication, Job Search Interface was made by using Recycler Views (optimized the app workflow by **more than 25%**) and Custom User Notifications

Software Engineer Intern, Fusionhawk Pvt Ltd, Delhi, India ([link](#))

Jun'19 – Jul'19

- Developed **Amazon Alexa Smart Wi-Fi Plugs** to control electrical appliances over Wi-Fi using Alexa Skills
- Developed the whole circuit layout by making use of Arduino, Relays and programming done in C/C++ to converse with Alexa

PROJECTS

DevOps Project: CI/CD Pipeline, Course Project ([link](#))

Jan'22 – May'22

- Worked on developing Pipeline Architecture: Init, Build, Test, Deploy and Used Oracle VirtualBox to develop on Virtual Machines and set up dependencies for running Java application.
- Implemented Fuzzing testing techniques and applied mutation testing **over 1000 iterations** to test Java application
- Deployed the Java application on Digital Ocean cloud provider and setting up of Proxy server for blue-green deployment.

Software Engineering: Discord Reward Bot, Course Project ([link](#))

Jan'22 – May'22

- Programmed backend code in JavaScript for handling all the use-cases of the bot such as rewarding points to users.
- Handled the database of the bot using PostGresql database and integrated it with the use-cases as well.
- Created the message-embeds for front-end and linked the bot to GitHub using webhooks to monitor GitHub activities.

IoT & Android App Dev: BlioT, Project for National Level IoT Competition ([link](#))

Feb'18 – May'18

- Developed the whole back-end logic for smart blind stick to assist the visually challenged people using Arduino IDE.
- Successfully sent the live location of the blind person using GPS and GSM modules to the Online Server by using REST APIs. The location accuracy achieved was **almost 91%**
- Developed Android App for Live Location tracking and receiving SMS Alerts notifications from the stick with **more than 96% true positive accuracy**

AWARDS & ACHEIVEMENTS

- Received an Appraisal Prize from Facebook for making Of Course I Love Mars! Filter for Instagram ([link](#)) Oct'20
- **Runner Up** for Best Research Paper at TECHODYUM'19 conducted by BVCOE, Delhi, India Mar'19
- **Winner** of IoT Competition at Zonal's Level for making BlioT conducted Innovians Technologies, Delhi, India Oct'17

PUBLICATIONS

Presented a paper titled Amazon Alexa Enabled Smart Wi-Fi Plug at TECHODYUM'19 conducted by BVCOE, Delhi; with publication in Journal of Multi-Disciplinary College of Technologies (Vol 13 Issue 1), Delhi. ([link](#))