

Joydeep Nag

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EDUCATION

STONY BROOK UNIVERSITY

M.S. IN COMPUTER ENGINEERING

Aug 2022 - Dec 2023 (expected) | New York, USA

BITS PILANI

B.E.(HONS) IN ELECTRICAL AND ELECTRONICS

July 2016 - July 2020 | Rajasthan, India
CGPA: 8.35

GRADUATE

Computer Networks
Analysis of Algorithms

UNDERGRADUATE

Data Structures and Algorithms
Machine Learning
Neural Networks and Fuzzy Logic
Object Oriented Programming
Operating Systems

SKILLS

PROGRAMMING

Advanced

• Java • C • Python

Medium

• C++

Beginner

• Scala • JavaScript

TESTING FRAMEWORKS

• Mockito • JUnit • xUnit

FRAMEWORKS/LIBRARIES

Data Science

• Keras • NumPy • SKLearn
• NLTK(Natural Language Toolkit)
• TensorFlow

Backend Development

• Spring • SpringBoot • Flask

Frontend Development

• React • Redux

SPOKEN LANGUAGES

Fluent

• English • Hindi • Bengali

EXPERIENCE

SALESFORCE | ASSOCIATE MEMBER OF TECHNICAL STAFF

Feb 2021 – July 2022 | Hyderabad, India

- Wrote the entire backend for a new feature called Recurring Schedule which allows users to create recurrences of their required functionality which has hugely improved productivity.
- Worked on developing a high impact and scalable feature called ActionPlans to allow customers to plan out requirements with deadlines by creating blueprints and then assign tasks to users related to the requirements
- The backend framework was designed on REST principles using Java and Spring with stringent testing, having a code coverage of over 90%.
- It has had significant customer adoption, increasing by 12% in the last 3 quarters.

CISCO | SOFTWARE ENGINEER 1

Aug 2020 – Feb 2021 | Bangalore, India

- Worked on creating an end to end workflow for automation of device performance analysis.
- This tool can remotely check the health and other important parameters for device condition without manual intervention which significantly increased productivity, reducing its end-to-end response timeline to the tune of around 65%.
- Created the backend framework to develop a scalable application using Java and SpringBoot

J.P. MORGAN CHASE | SOFTWARE ENGINEERING INTERN

May 2019 – July 2019 | Bangalore, India

- Worked on backend Web development creating a web application based on RESTful architecture to create an automatic language translation tool.
- The web application was highly scalable resulting in workflow efficiency increase, reducing the turnaround time of the review process by about 89%.

PROJECTS

OBJECT DETECTION IN AERIAL IMAGES | CEERI PILANI

Jan 2019 – May 2019 | Pilani, India

- Created an efficient neural network which can classify objects in images based on UAV(unmanned aerial vehicles) data.
- The backbone implemented was a DetNet-59 with a ResNet classifier on top.
- To get DetNet weights, two approaches were used:- convert PyTorch weights to Keras or simply train on ImageNet directly.
- Performance was similar to 2 stage state-of-the art object detection models.

PERSONAL PROFILE

I am an experienced Software Engineer in full stack development. I am highly motivated towards solving challenging technical problems using the latest tools and have an excellent grasp on data structures and algorithms, alongwith database design. I have strong communication and interpersonal abilities to be a valuable team member.